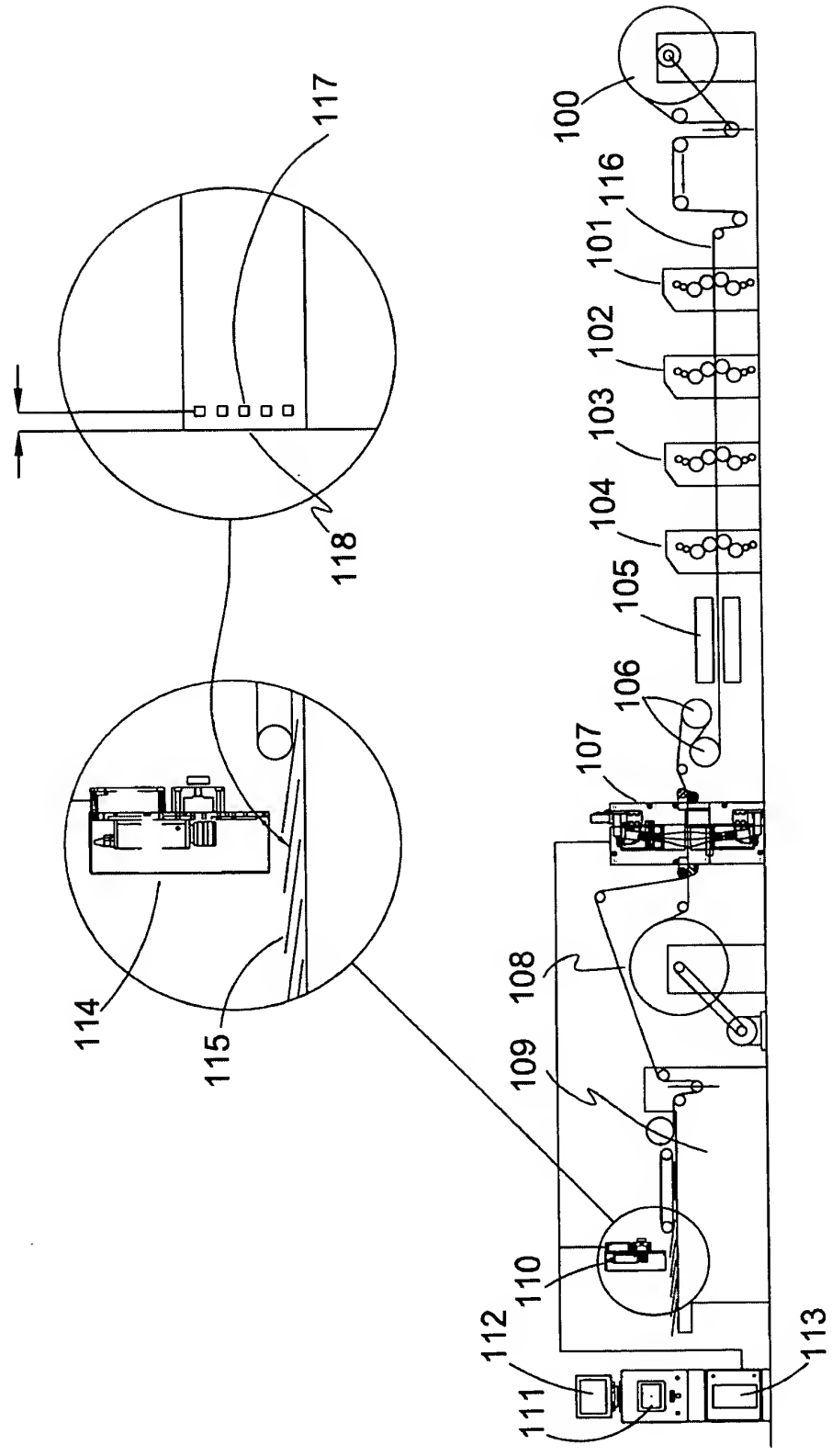
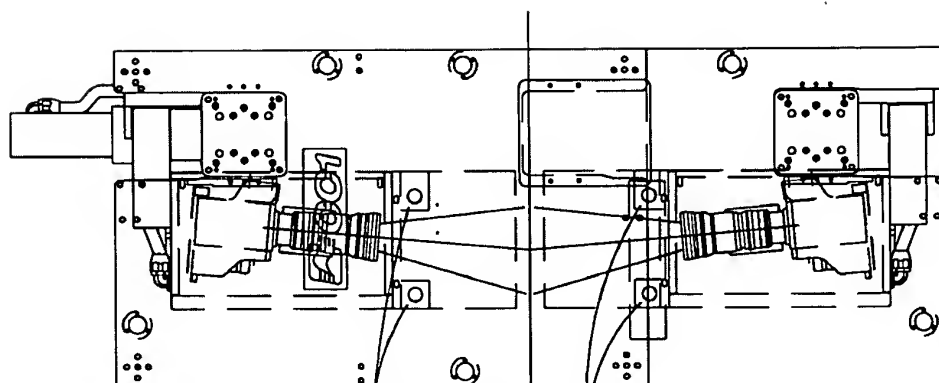
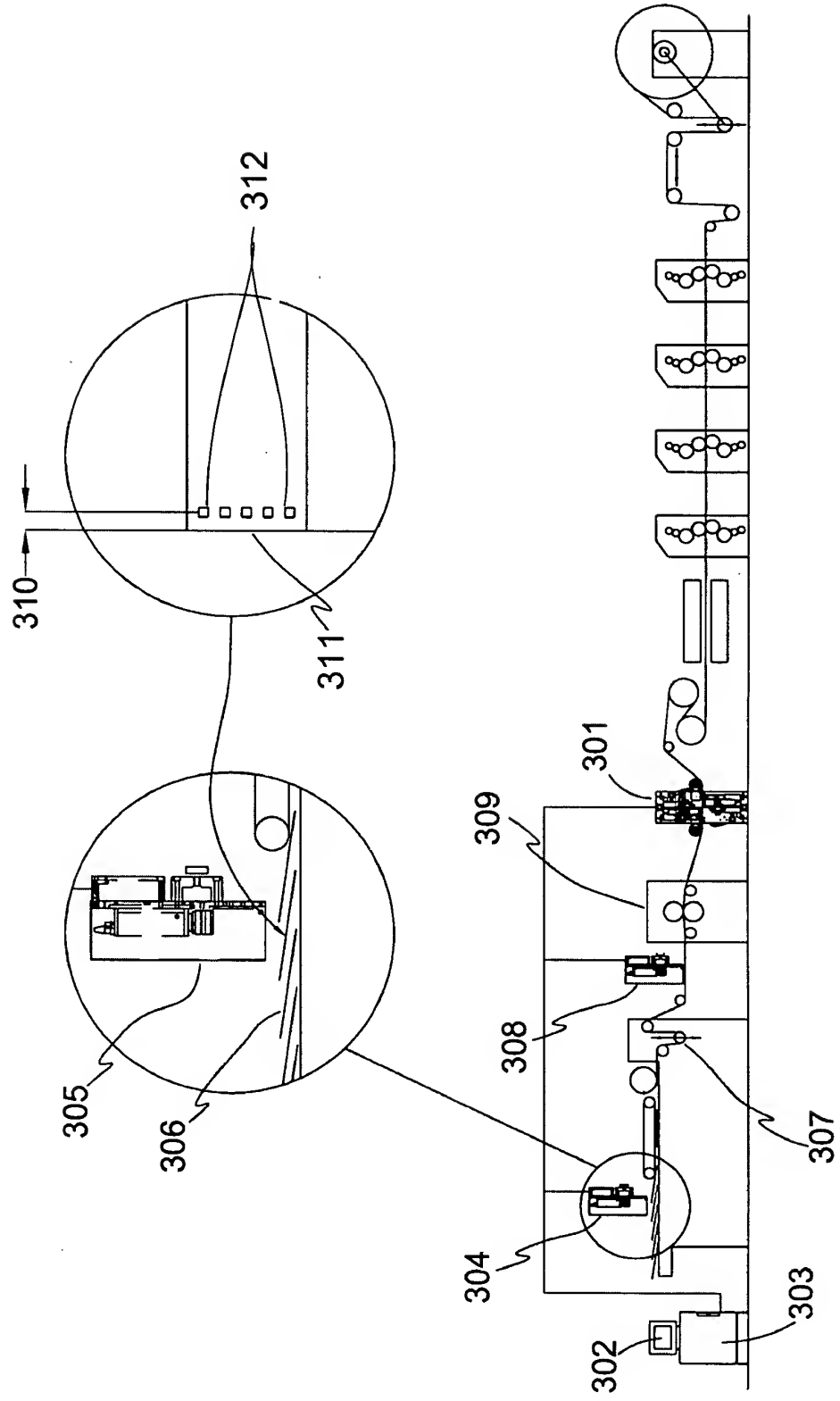


**FIG. 1**

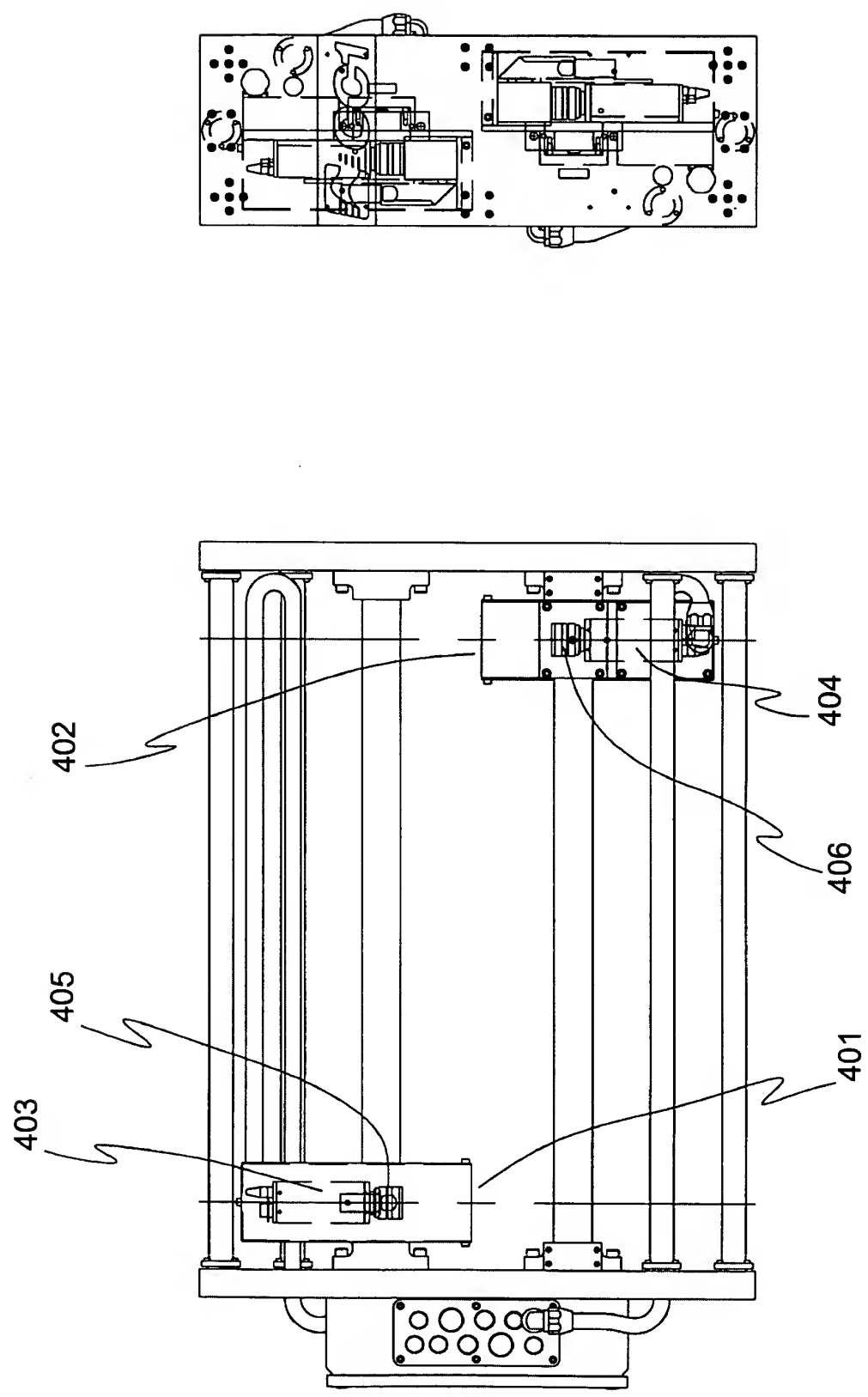




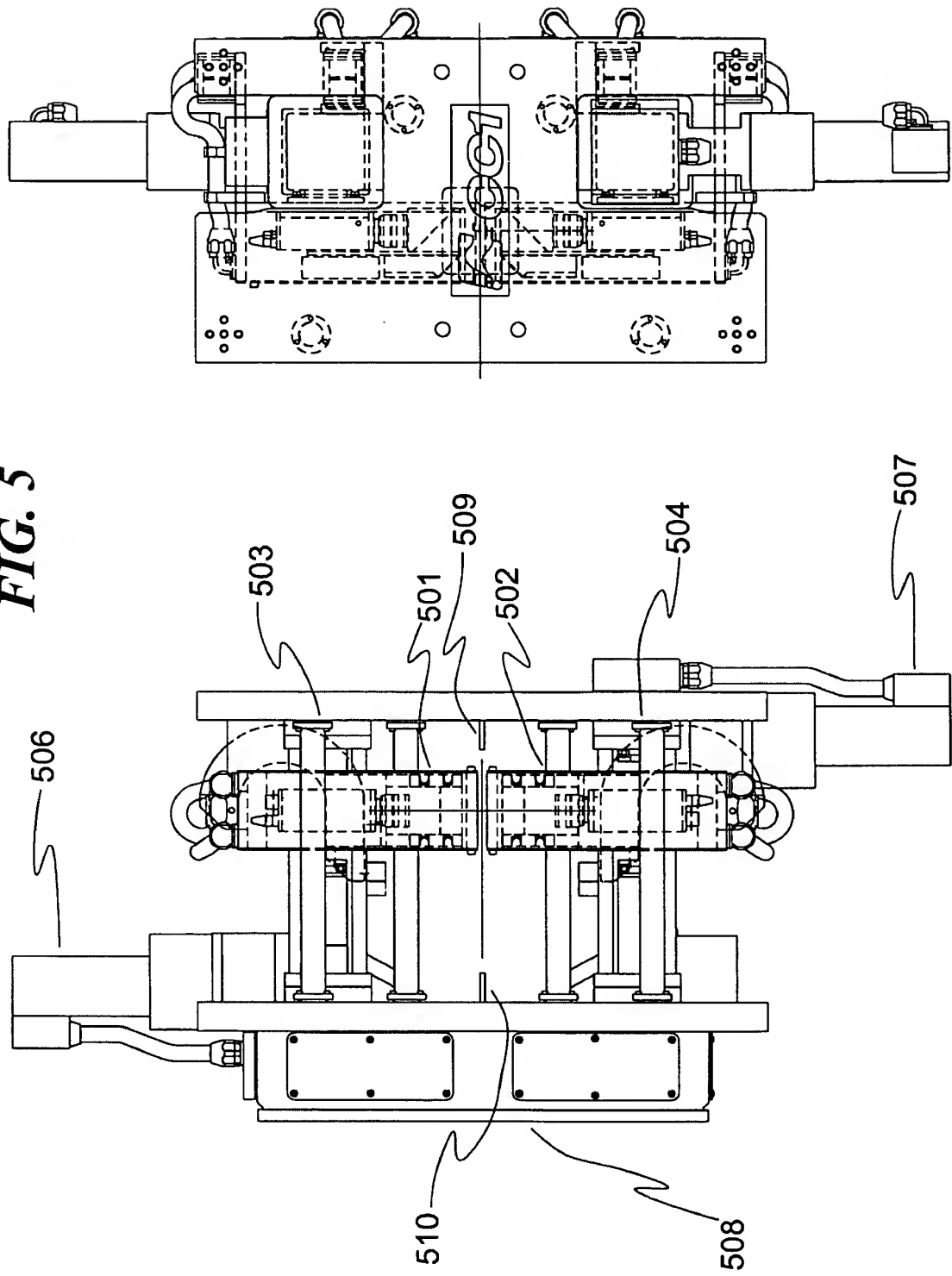
**FIG. 3**



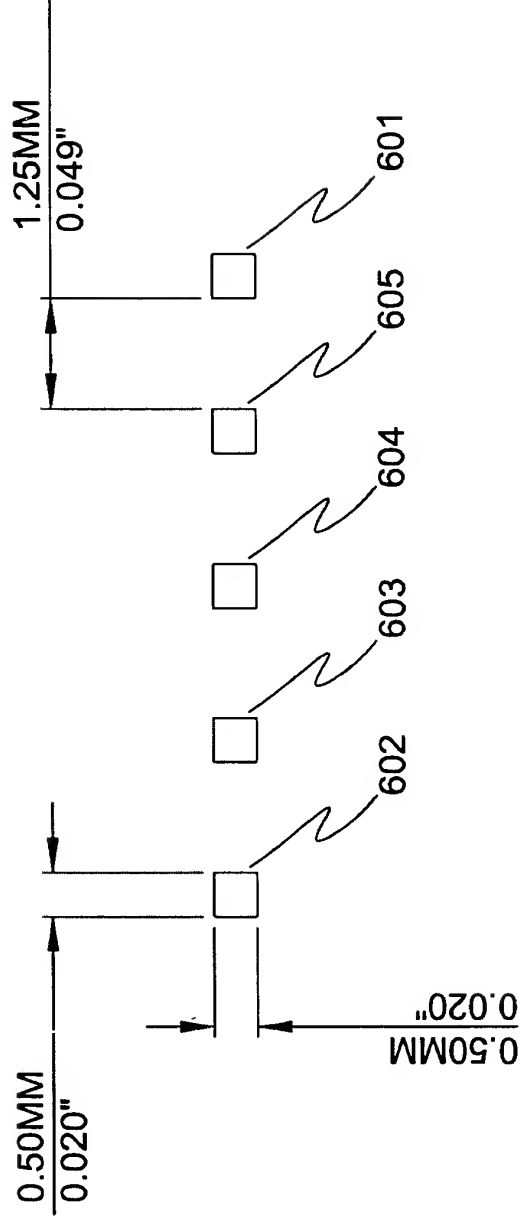
**FIG. 4**



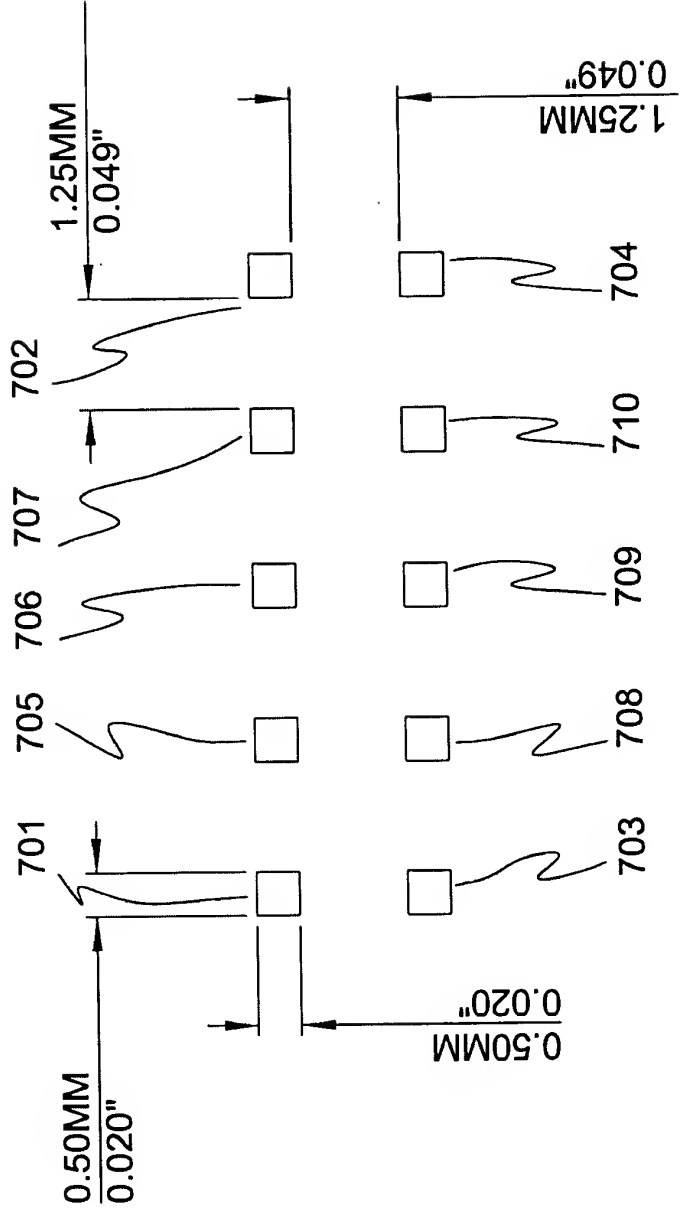
**FIG. 5**



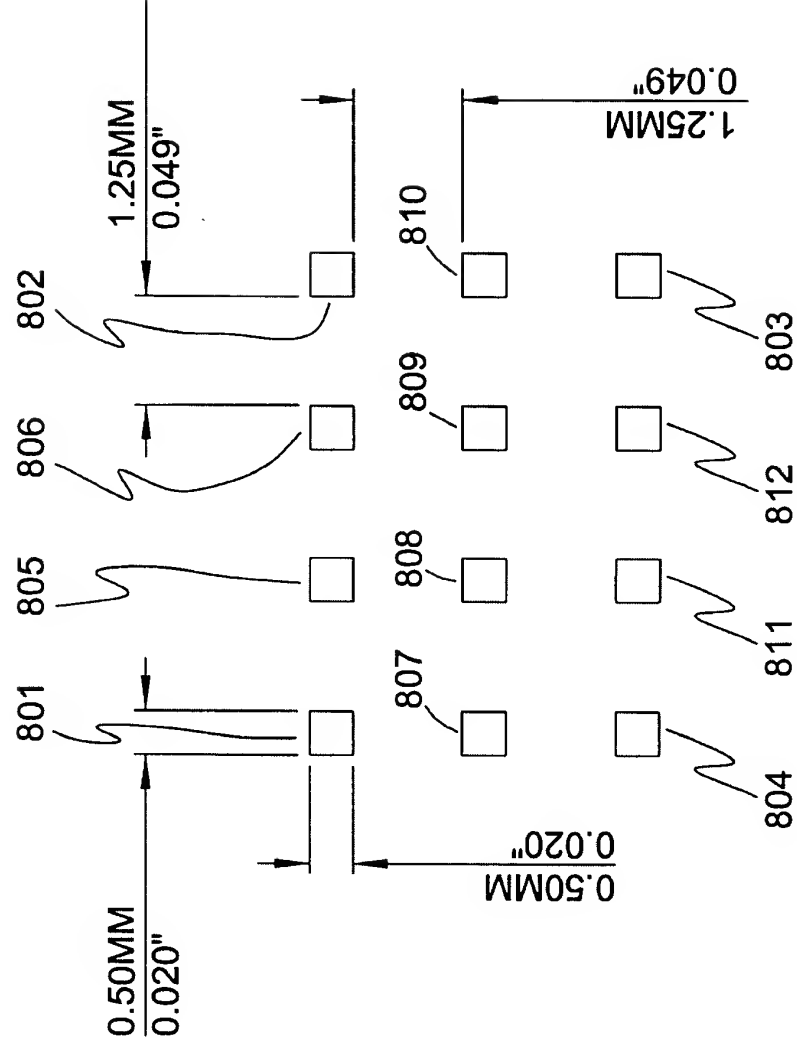
**FIG. 6**



**FIG. 7**



**FIG. 8**





**FIG. 9**

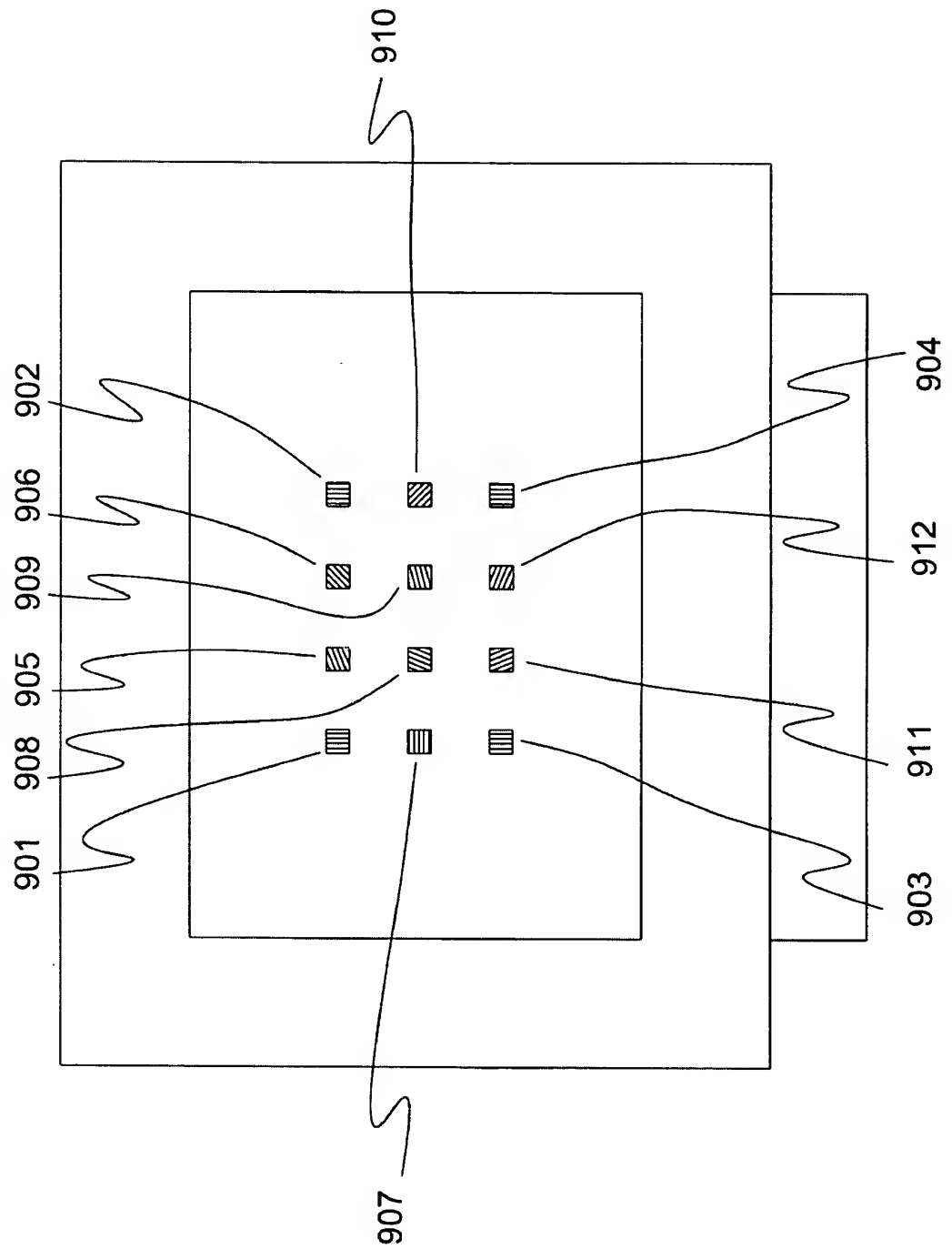




FIG. 11

CC1

Register Setup

CC1

Mark Pattern

Camera (Top)

Clear

Zero Gear Boxes

Search Display

Ok

Cancel

1

1

1

1

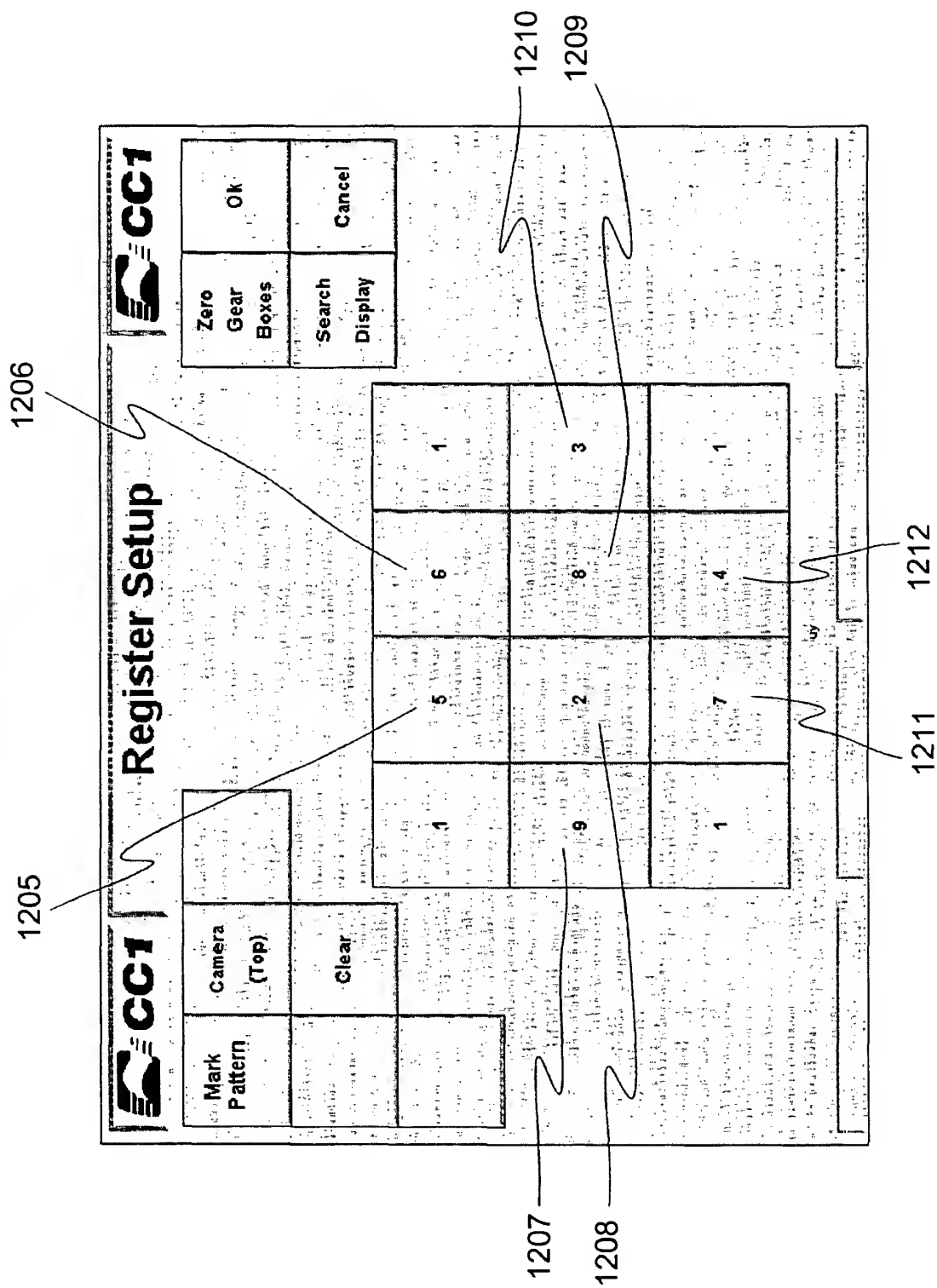
1101

1102

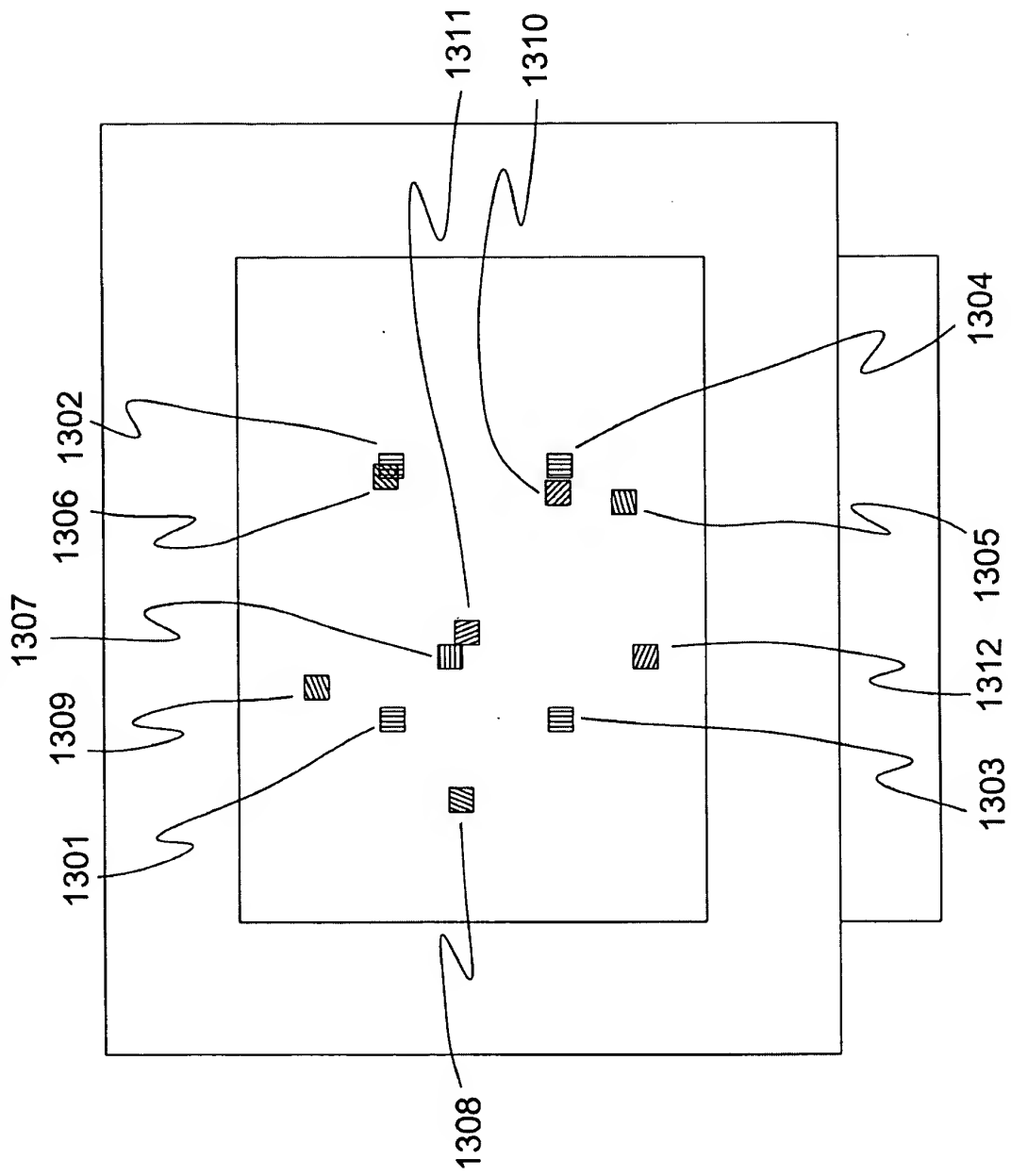
1103

1104

FIG. 12



**FIG. 13**



**FIG. 14**

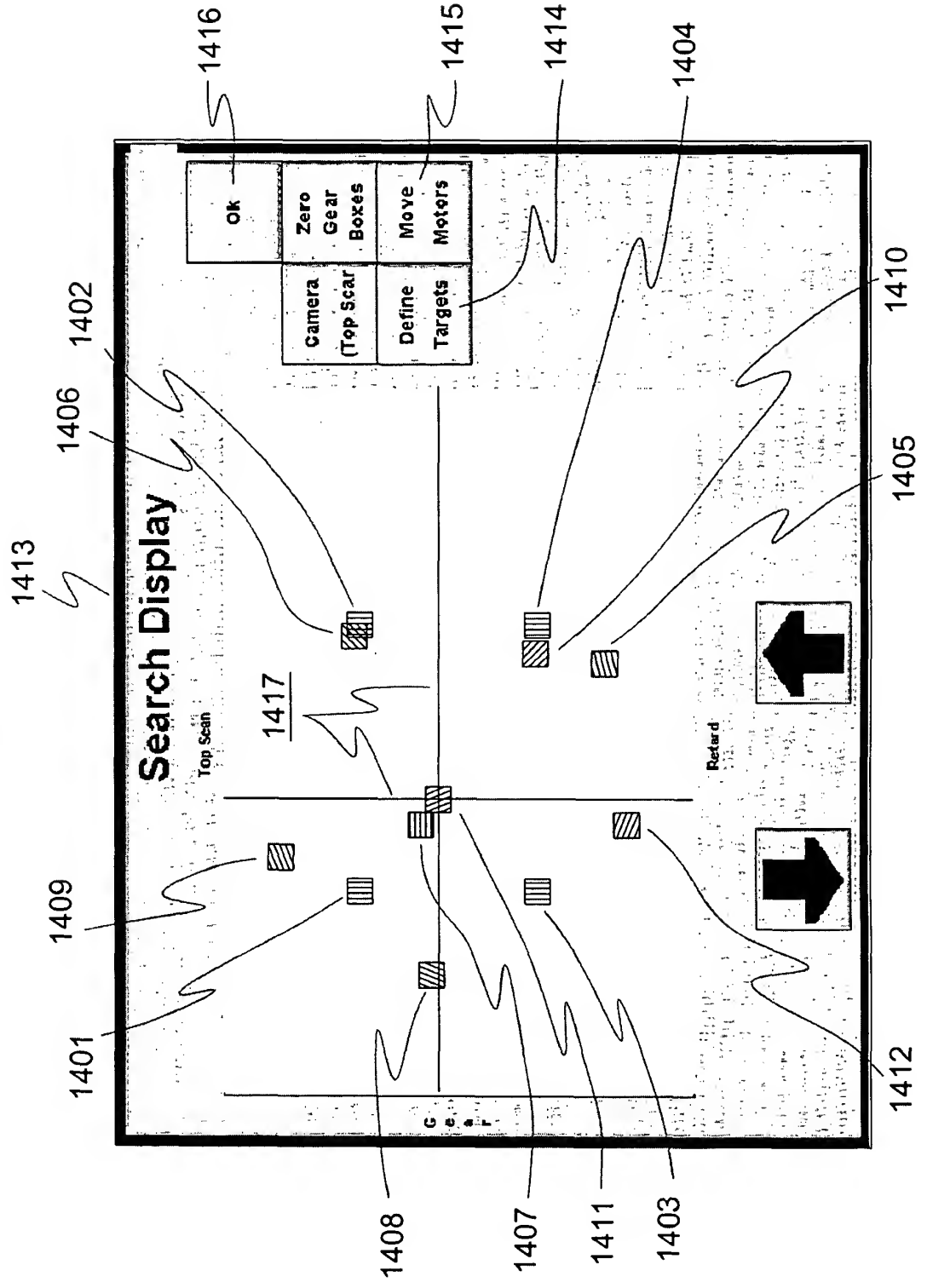
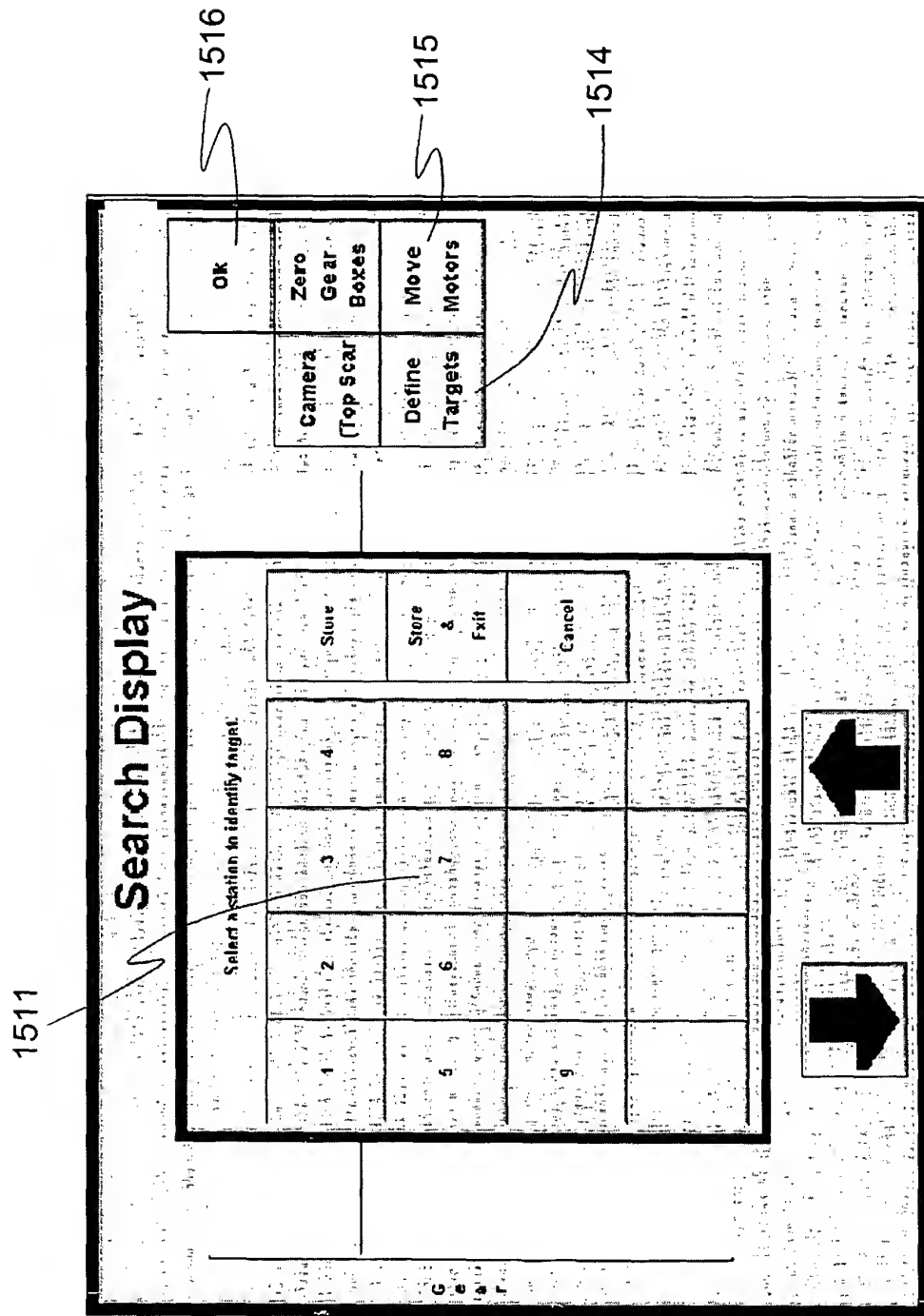


FIG. 15



1604 1605 1602 1603

**FIG. 16**

1601

# Move Motors

1607

1606

## Target ListBox

Target Desc	Camera	Side (m)	Running (m)	Rotation (degrees)	Teeth (#)	Yellow (m)	Yellow (m)
1	Top	0.000	0.000	0	0	0.125	0.125
2	Top	-0.166	-0.076	0	-1	0.125	0.125
3	Top	0.084	0.049	0	-1	0.125	0.125
4	Top	0.051	-0.082	0	2	0.125	0.125
5	Top	0.036	0.004	0	0	0.125	0.125
6	Top	0.045	0.004	0	0	0.125	0.125
7	Top	0.025	-0.086	0	2	0.125	0.125
8	Top	0.048	-0.034	0	0	0.125	0.125
9	Top	0.059	-0.038	0	1	0.125	0.125
7	Top					0.125	N/A
8	Top					0.125	N/A

Ok

Move Motors

Cancel Moving Motors

Target (°)

X Key (°)

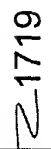
Y Key (°)

Clear

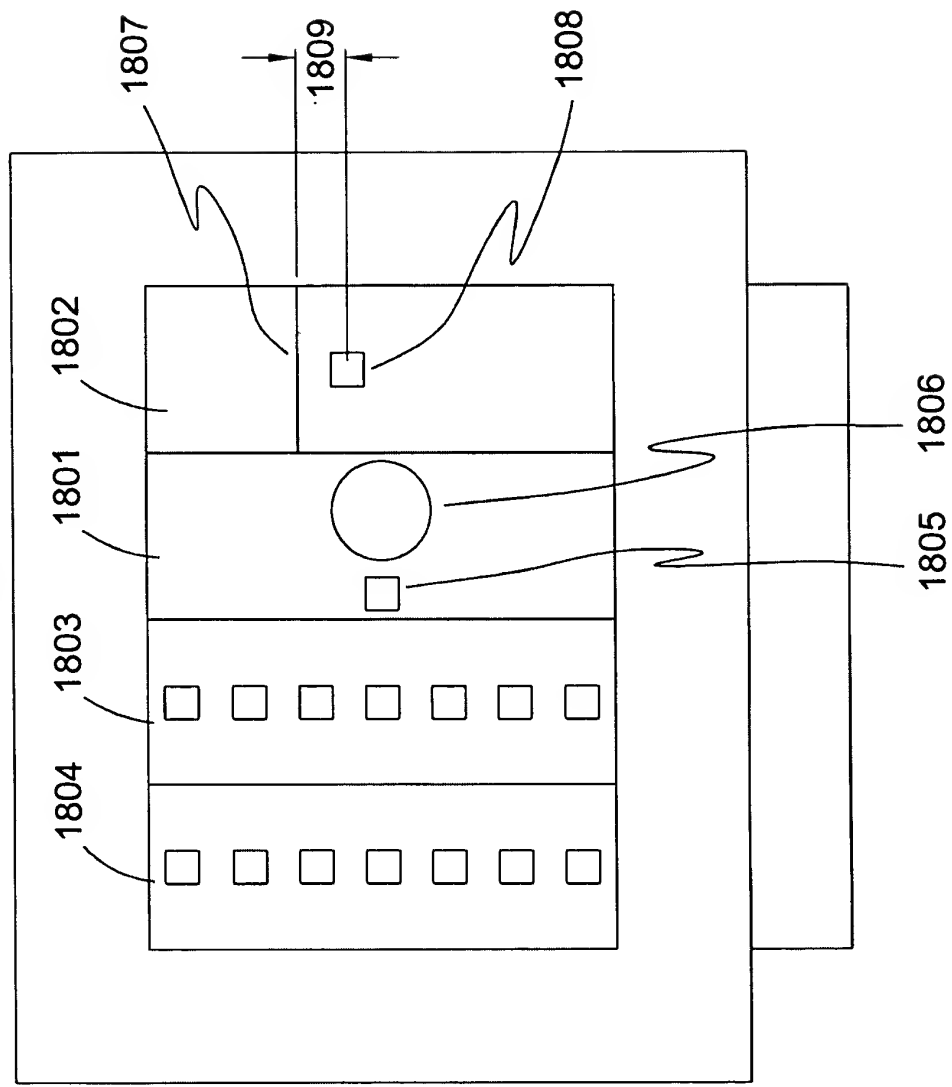
Clear All



1718



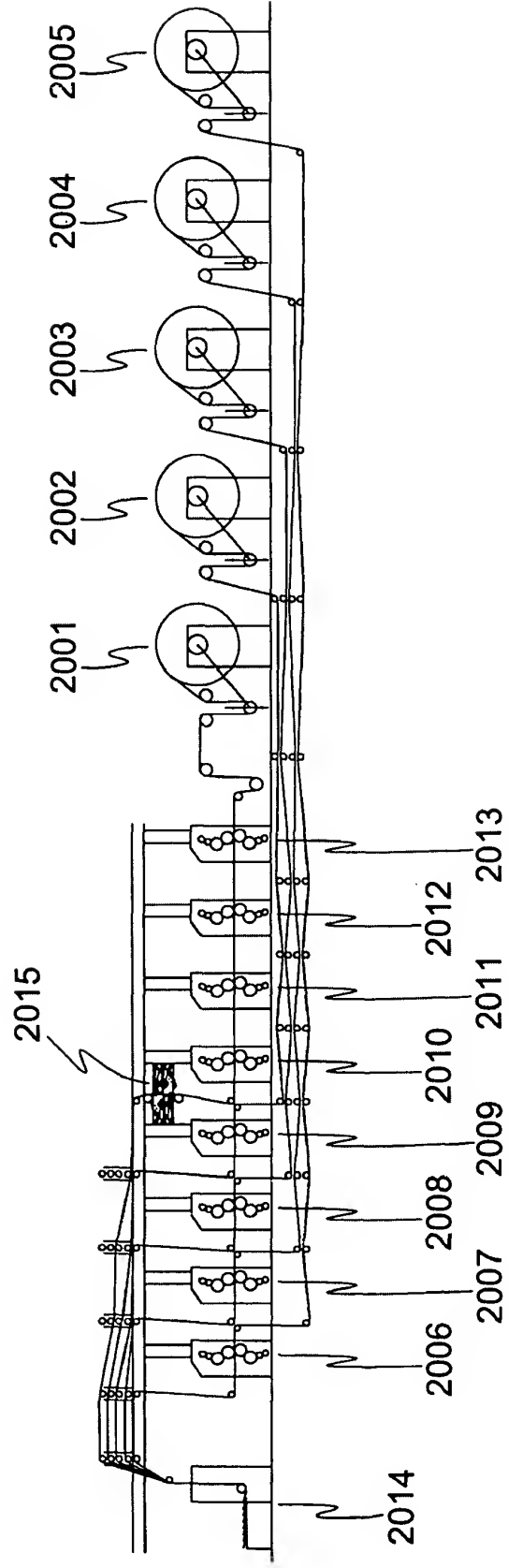
**FIG. 18**



**FIG. 19**

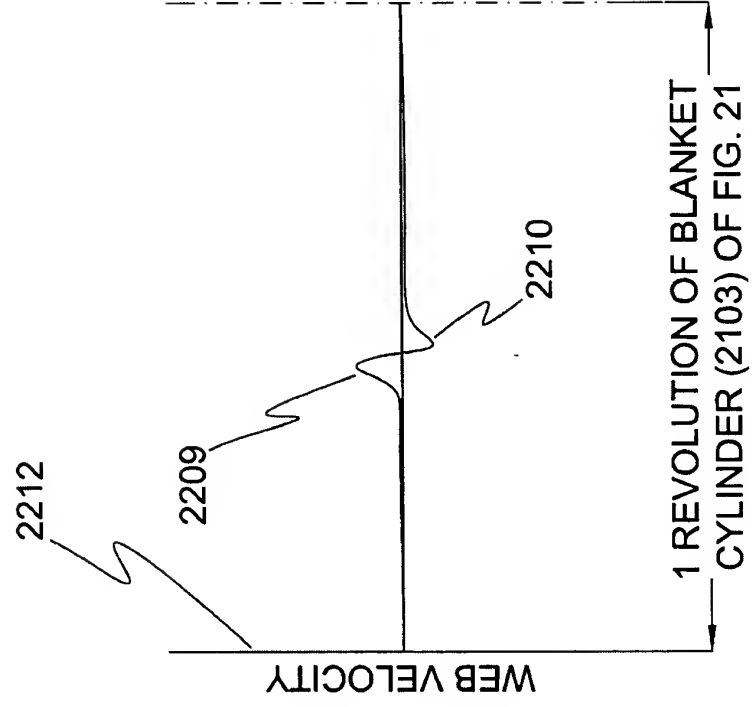
<b>Waste Savings Analysis Exemplary Newspaper Application 1900</b>		
<b>Customer Information</b>		
<b>Description</b>		<b>Value</b>
<u>1901</u>	Circulation	50000
<u>1902</u>	Width (inches)	14.75
<u>1903</u>	Length (inches)	11.375
<u>1904</u>	Paper Pages Across Web Width	2
<u>1905</u>	Paper Pages Around Circumference	4
<u>1906</u>	# of Paper Pages/Cylinder Revolution	8
<u>1907</u>	Newsprint Cost (US\$/Pound)	US\$ 0.25
<u>1908</u>	Paper Weight (Pounds/Ream)	30
<u>1909</u>	Ink Cost (Percent of Paper Cost)	10%
<u>1910</u>	Make Ready Count / Day On Edition	3
<u>1911</u>	Days per Week	6
<u>1912</u>	Specials per Week	5
<u>1913</u>	Number of Paper Pages per Newspaper	36
<u>1914</u>	<b>Savings (Papers / Make Ready)</b>	<b>1000</b>
<b>Calculations</b>		
<u>1915</u>	Number of Webs	4.5
<u>1916</u>	Square Feet of Paper per Newspaper	41.95
<u>1917</u>	Weight/Paper (Pounds)	0.39
<u>1918</u>	Paper Cost per Newspaper	US\$ 0.098
<u>1919</u>	Ink Cost per Newspaper	US\$ 0.010
<u>1920</u>	Total Cost (per Newspaper)	US\$ 0.108
<u>1921</u>	Cost per 1000 Papers	US\$ 108.14
<u>1922</u>	Make Ready (per Week)	23
<u>1923</u>	<b>Savings per Week (Number of Papers)</b>	<b>23000</b>
<u>1924</u>	<b>Savings per Week (Tons of Newsprint)</b>	<b>4.5</b>
<u>1925</u>	<b>Savings per Year (Tons of Newsprint)</b>	<b>235</b>
<u>1926</u>	<b>Savings per Week (US\$ paper &amp; ink only)</b>	<b>US\$ 2487</b>
<u>1927</u>	<b>Savings per Year (total US\$)</b>	<b>US\$ 129,336</b>

**FIG. 20**

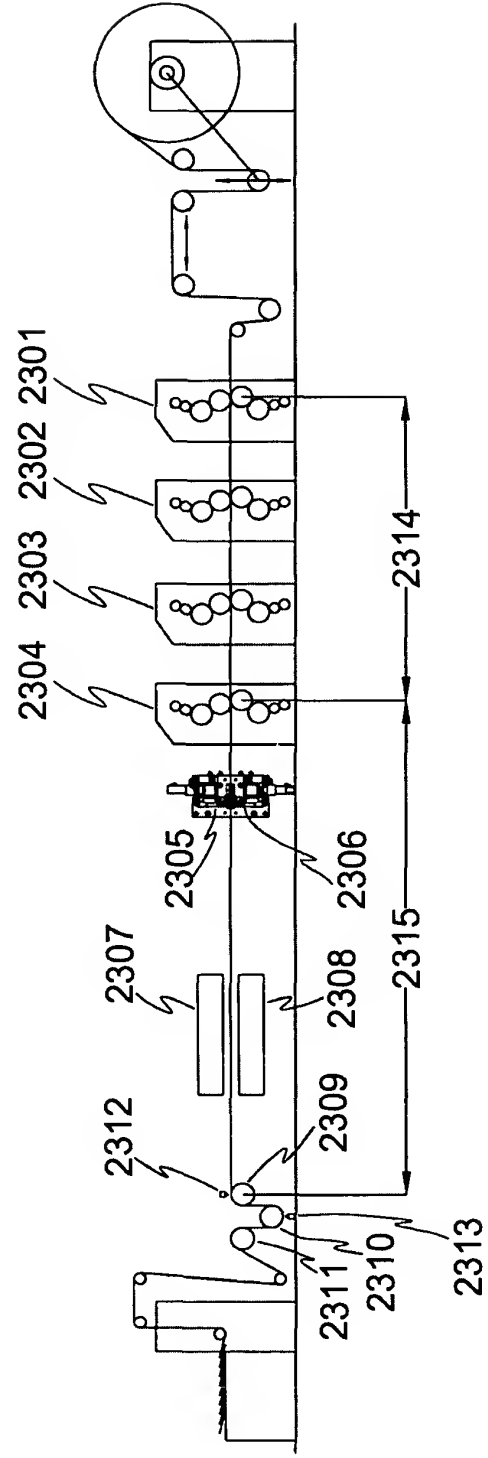




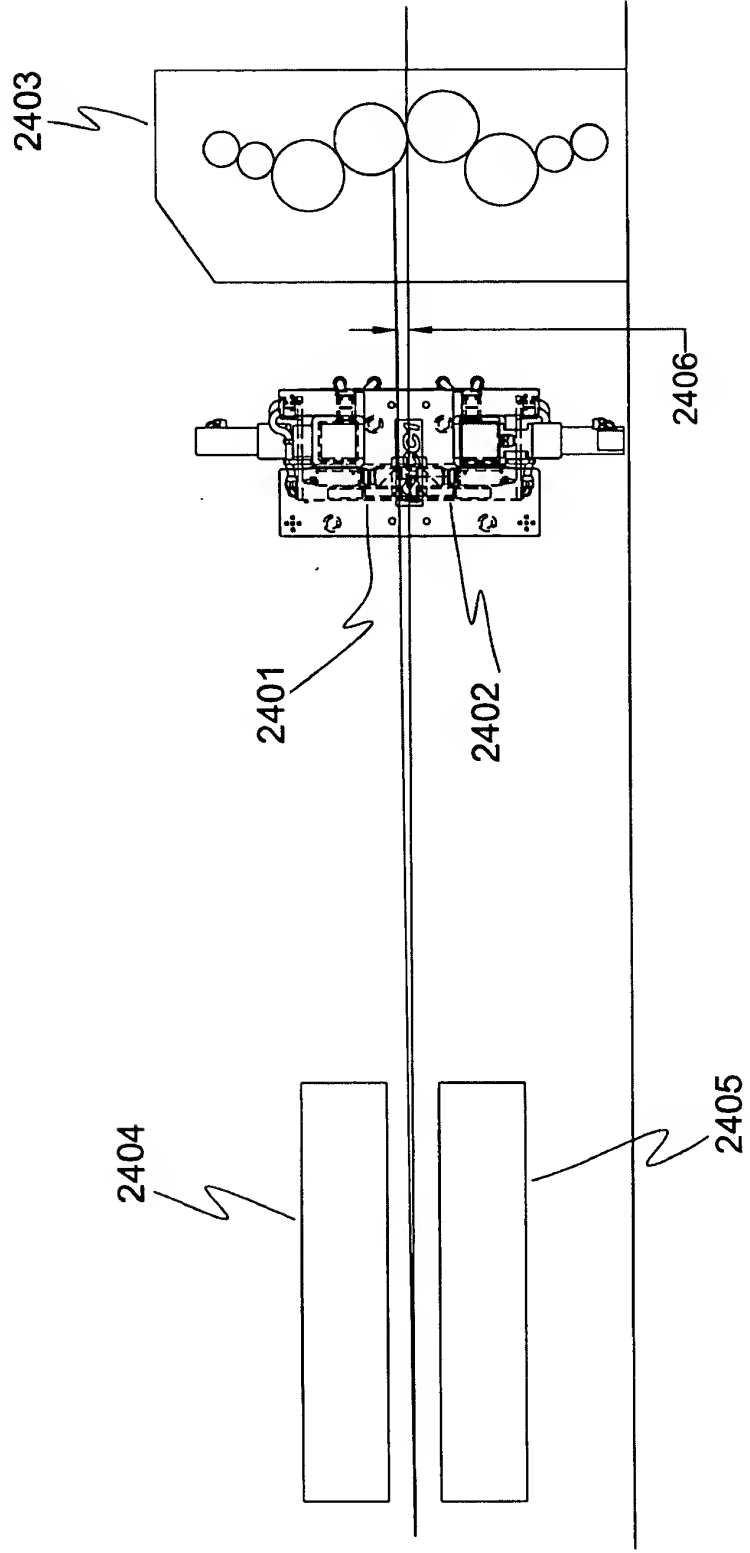
**FIG. 22**



**FIG. 23**

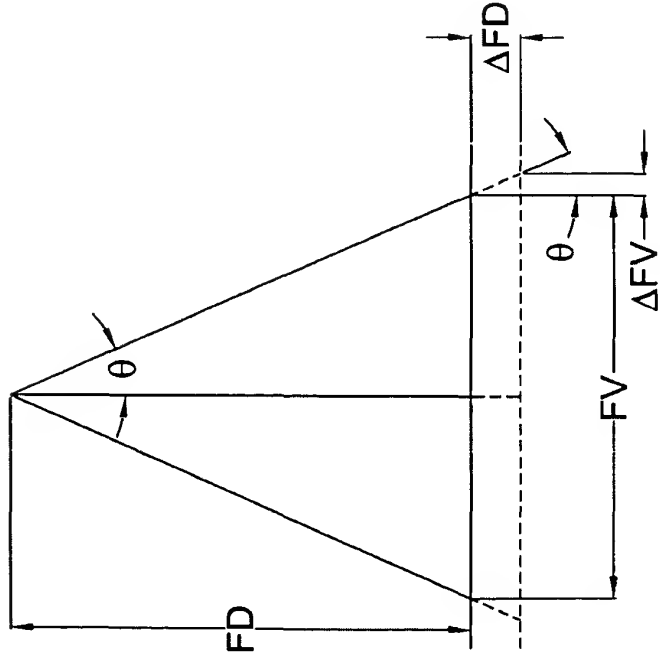


**FIG. 24**





**FIG. 25**



- 2501 — FV = FIELD OF VIEW
- 2502 — FD = FOCAL DISTANCE
- 2503 —  $\Delta FD$  = CHANGE IN FOCAL DISTANCE
- $\Delta FV$  = CHANGE IN FIELD OF VIEW
- 2504 —  $\Delta FV = ((\Delta FD)(FV))/((FD)(2))$

FOR

- 2505 —  $\Delta FD = 0.1"$
- 2506 —  $FD = 4.0"$
- 2507 —  $FV = 0.5"$
- 2508 —  $\Delta FV = ((0.1)(0.5))/(4.0)(2) = 0.00625"$

**FIG. 26**

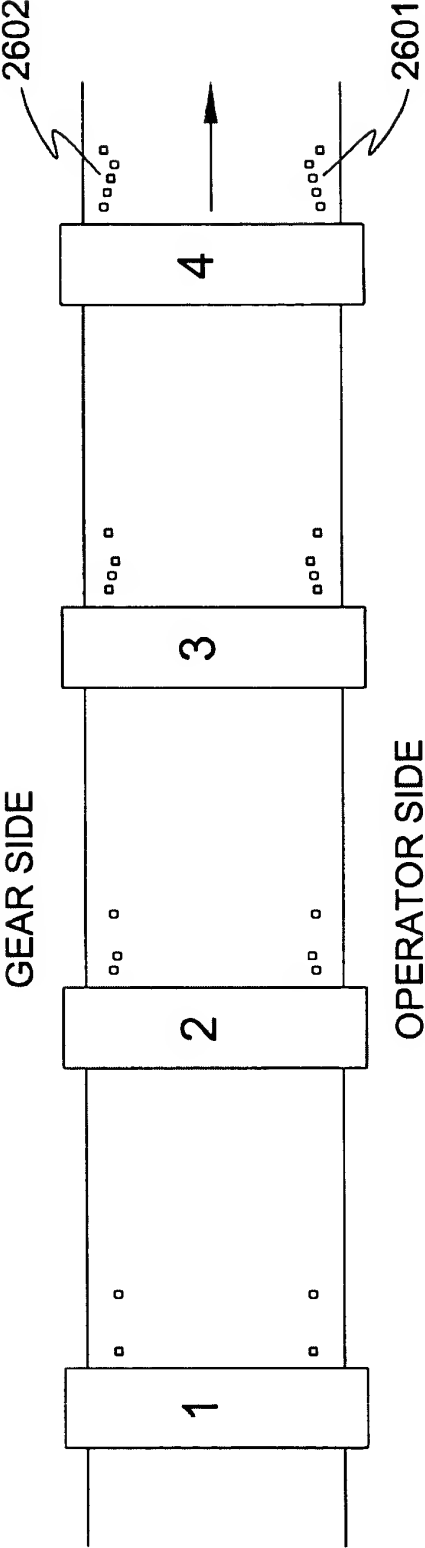
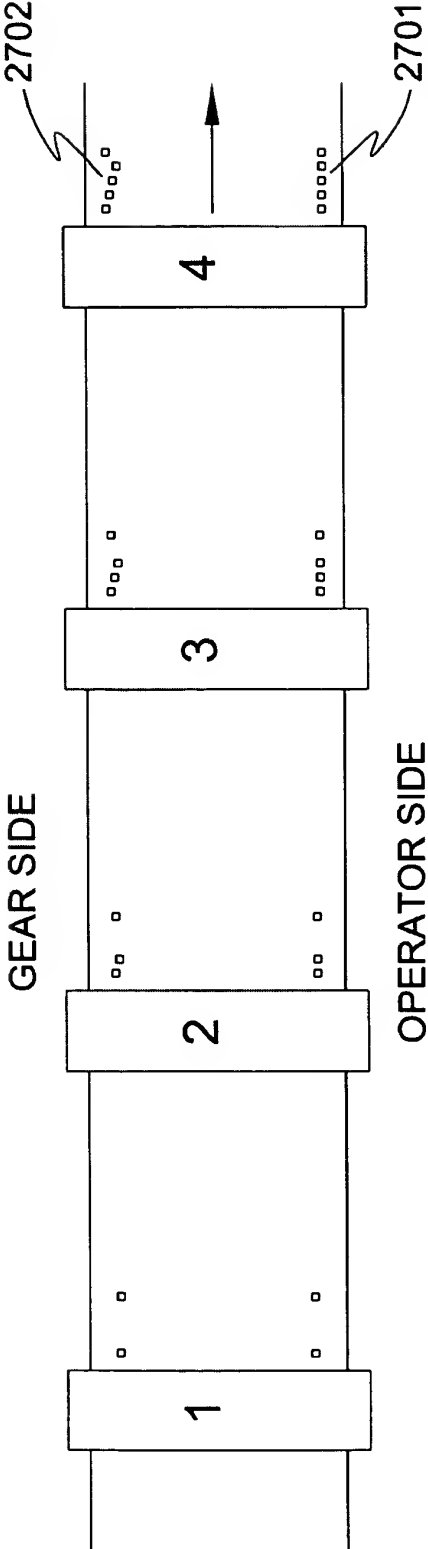
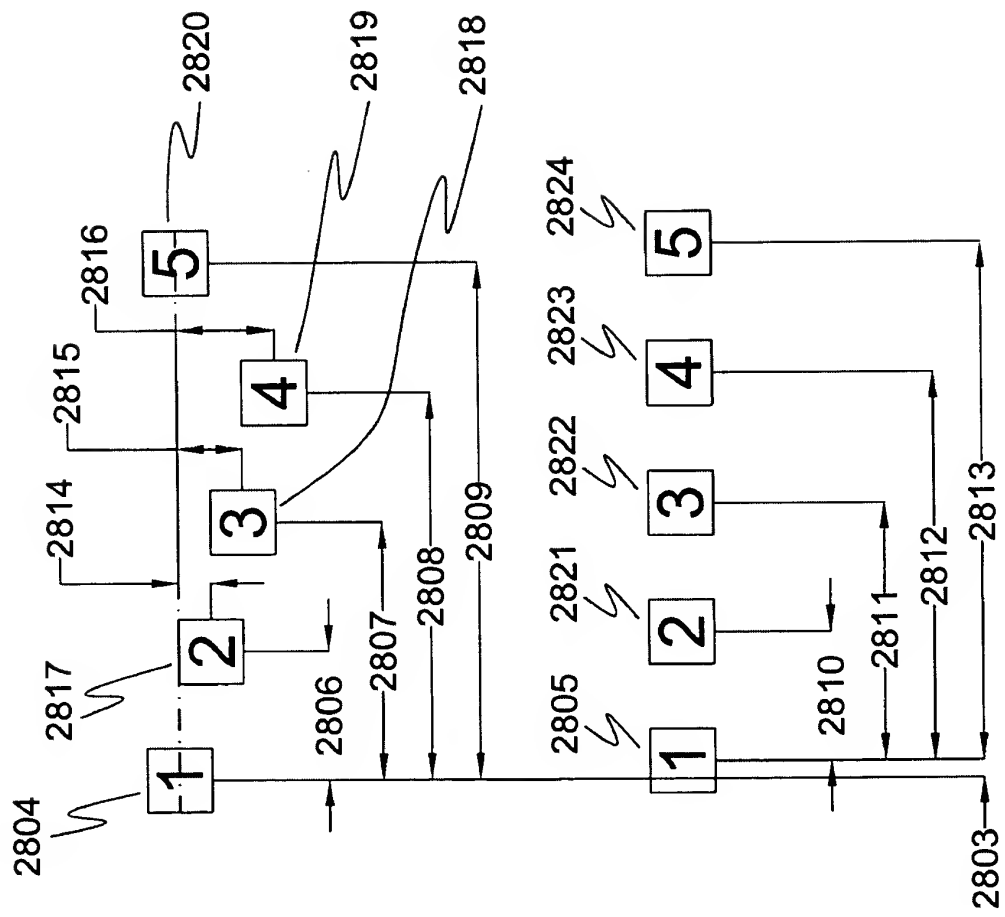


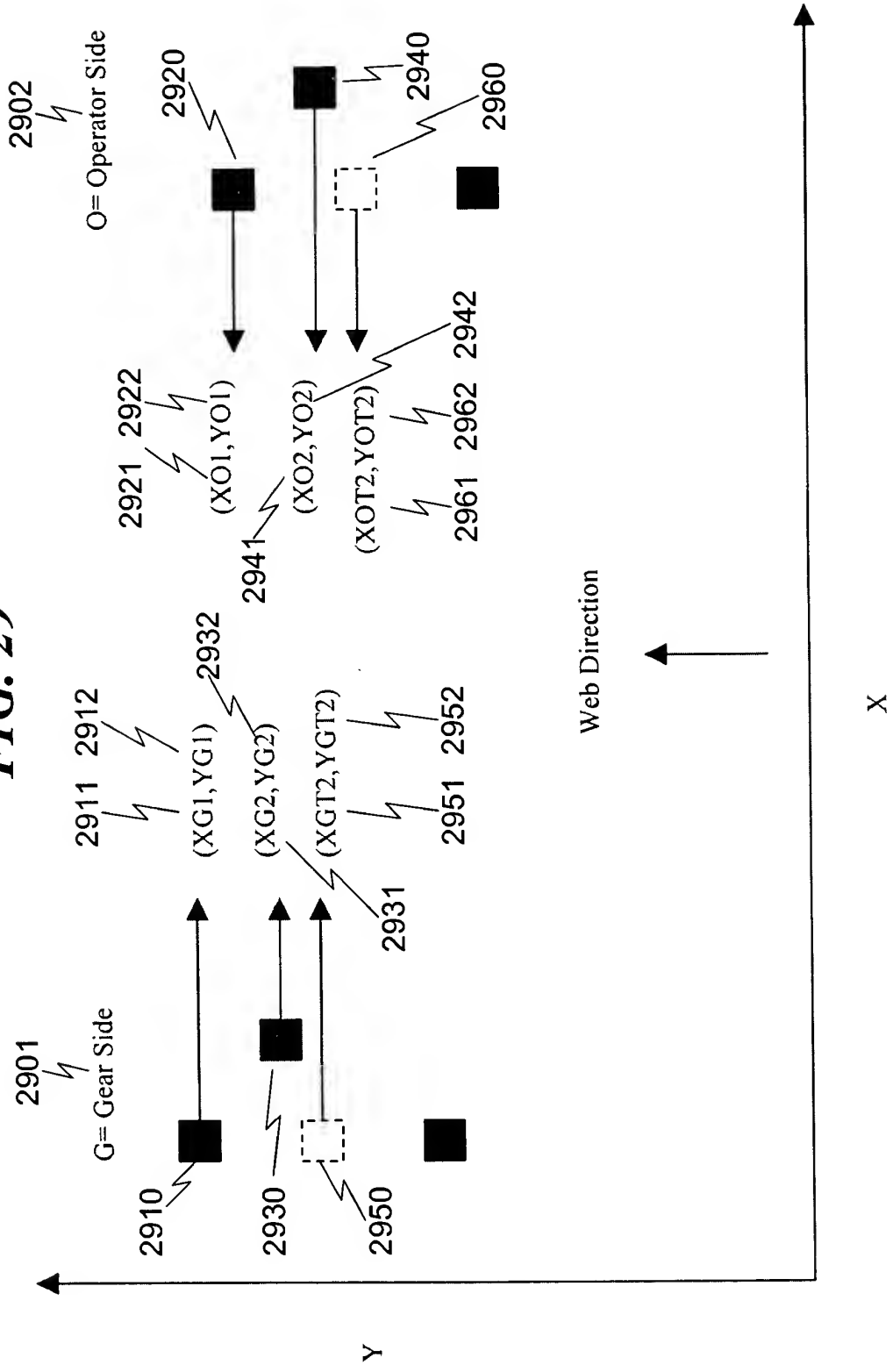
FIG. 27



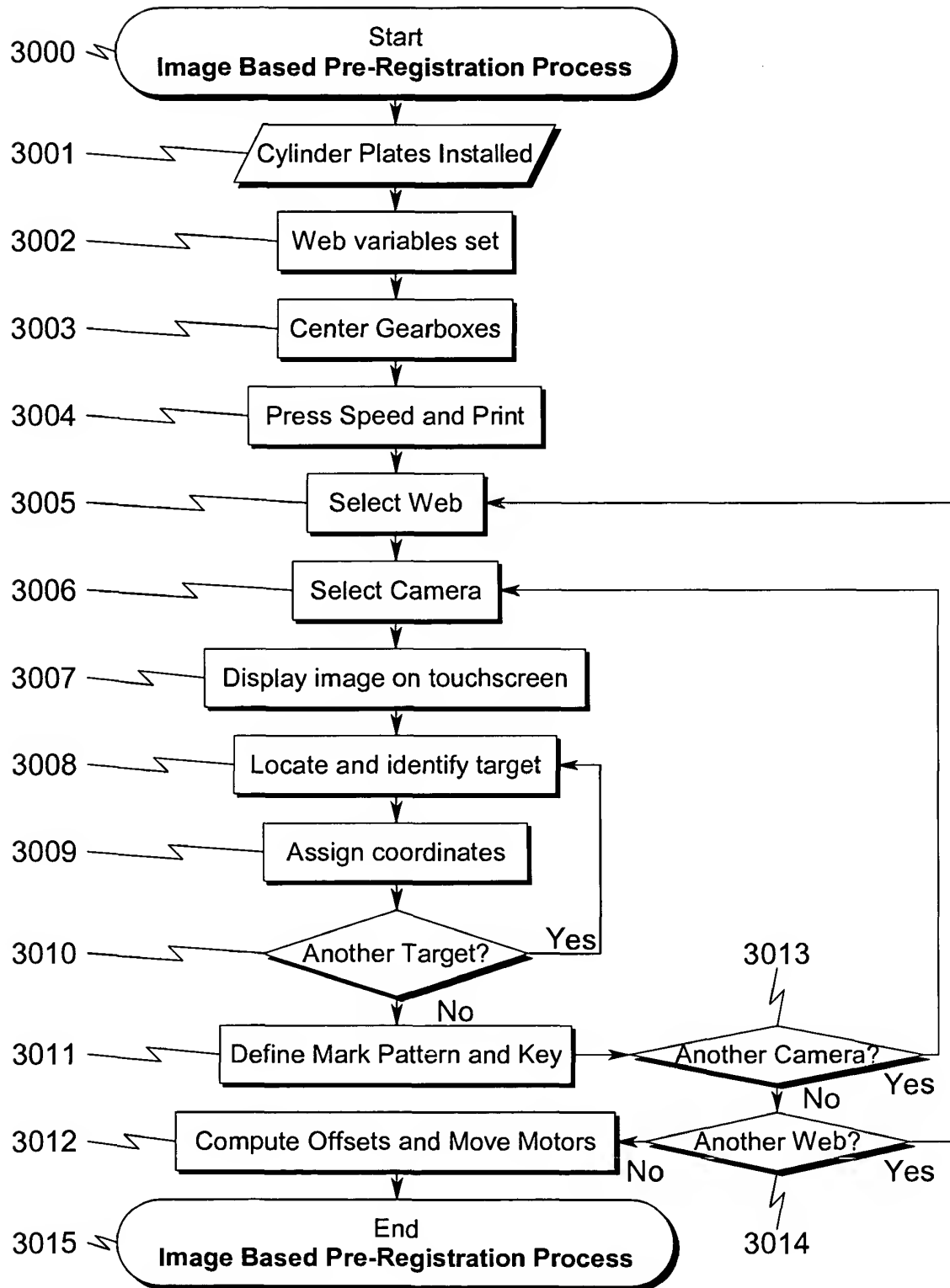
**FIG. 28**



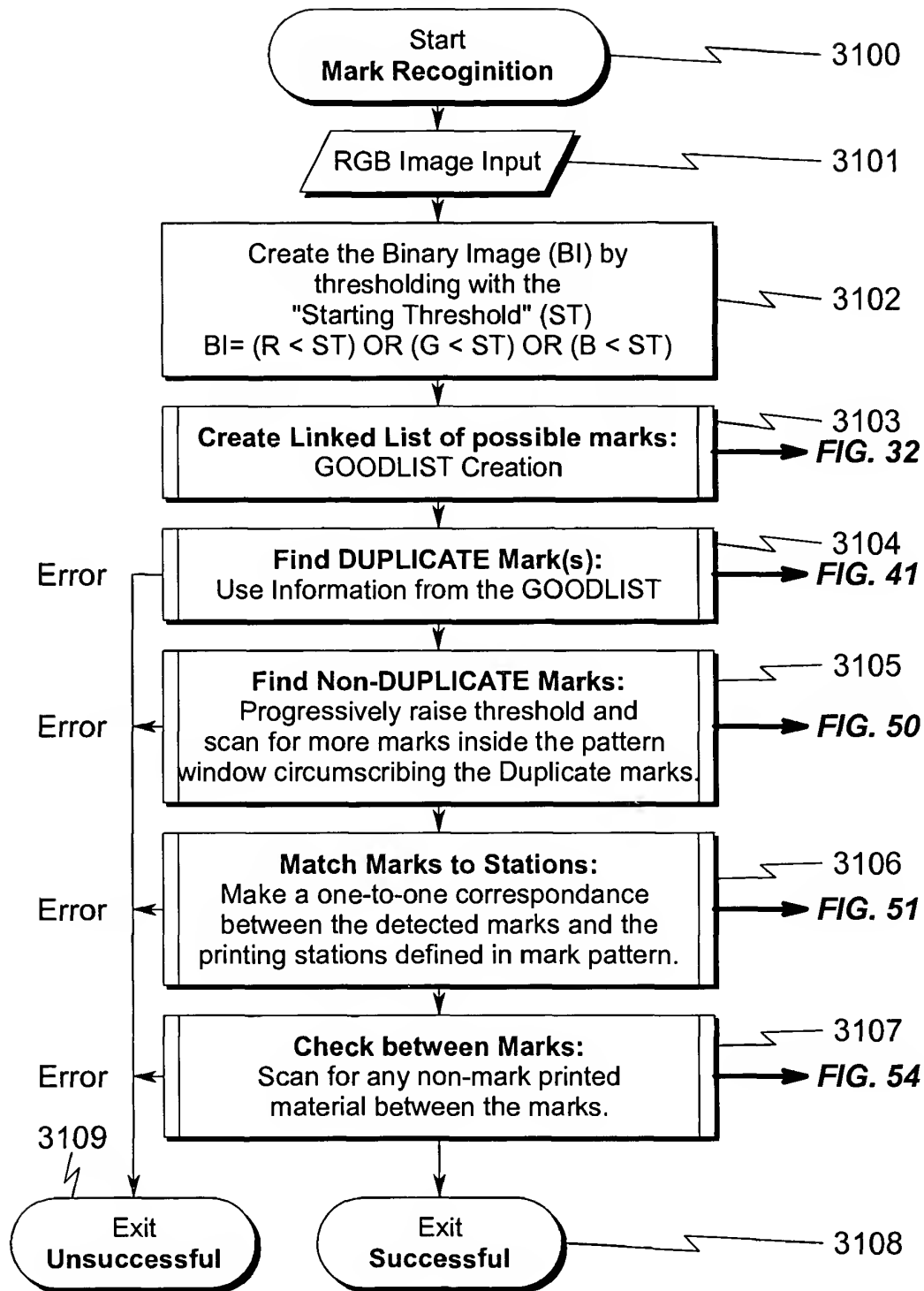
**FIG. 29**



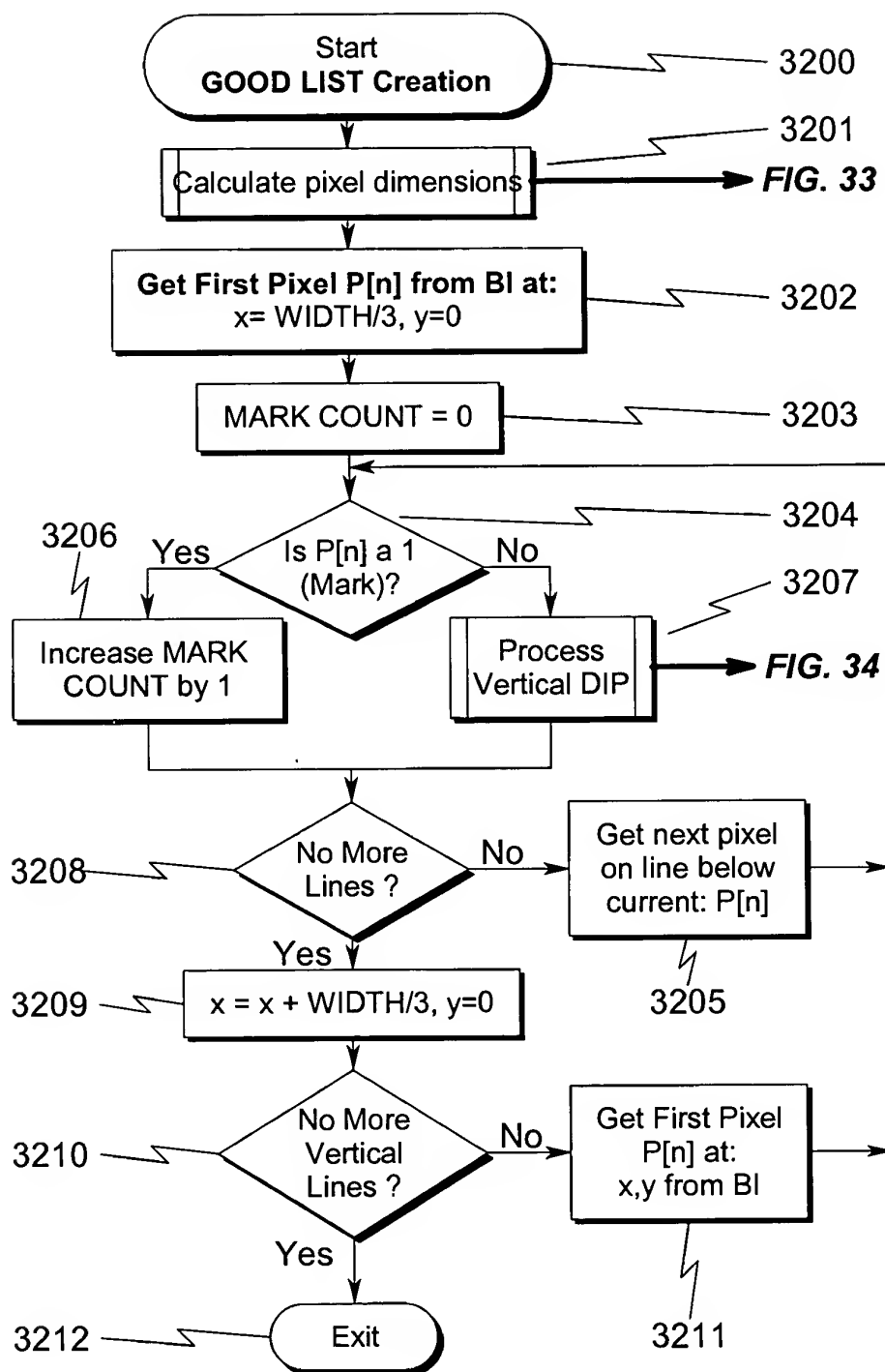
**FIG. 30**



**FIG. 31**

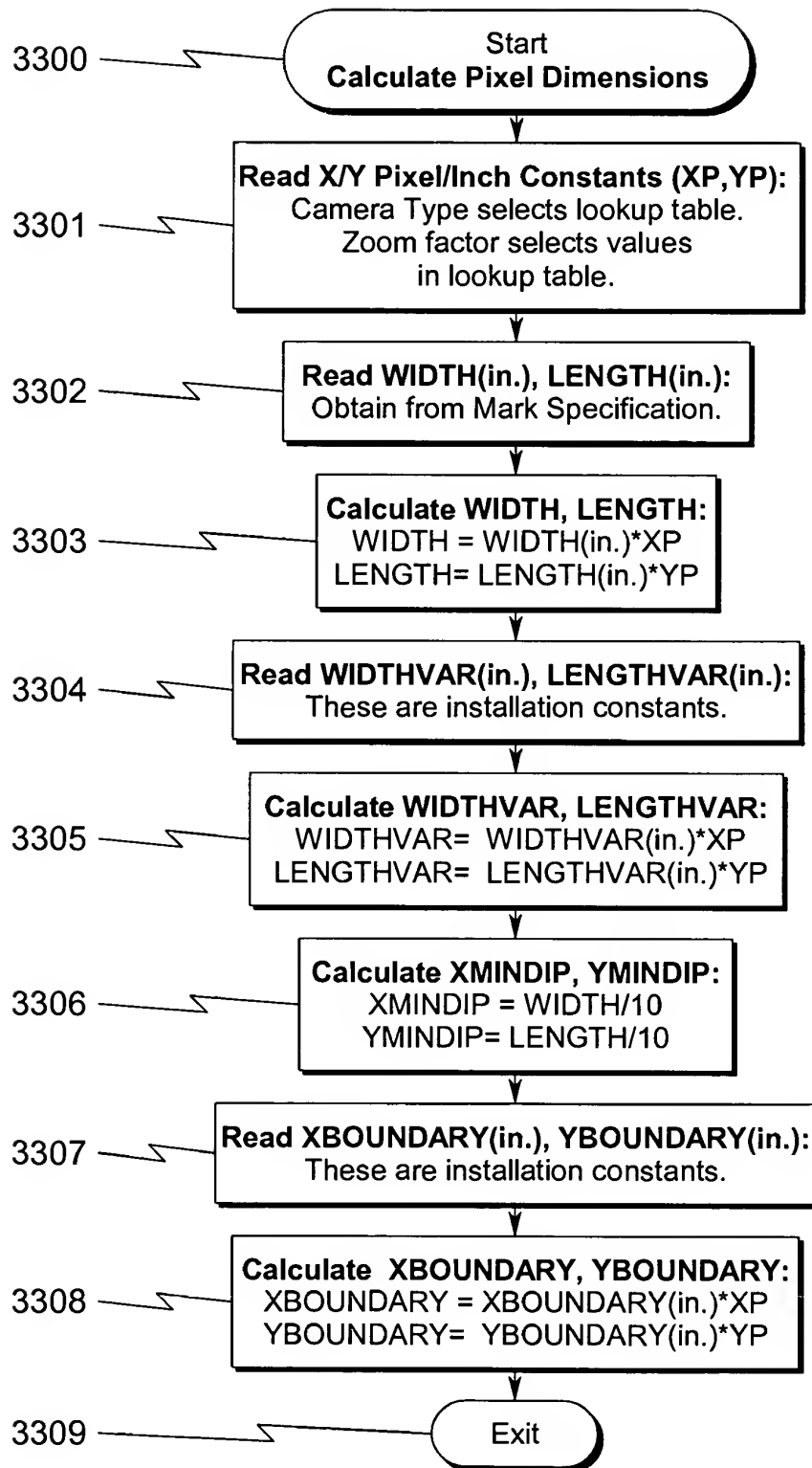


**FIG. 32**

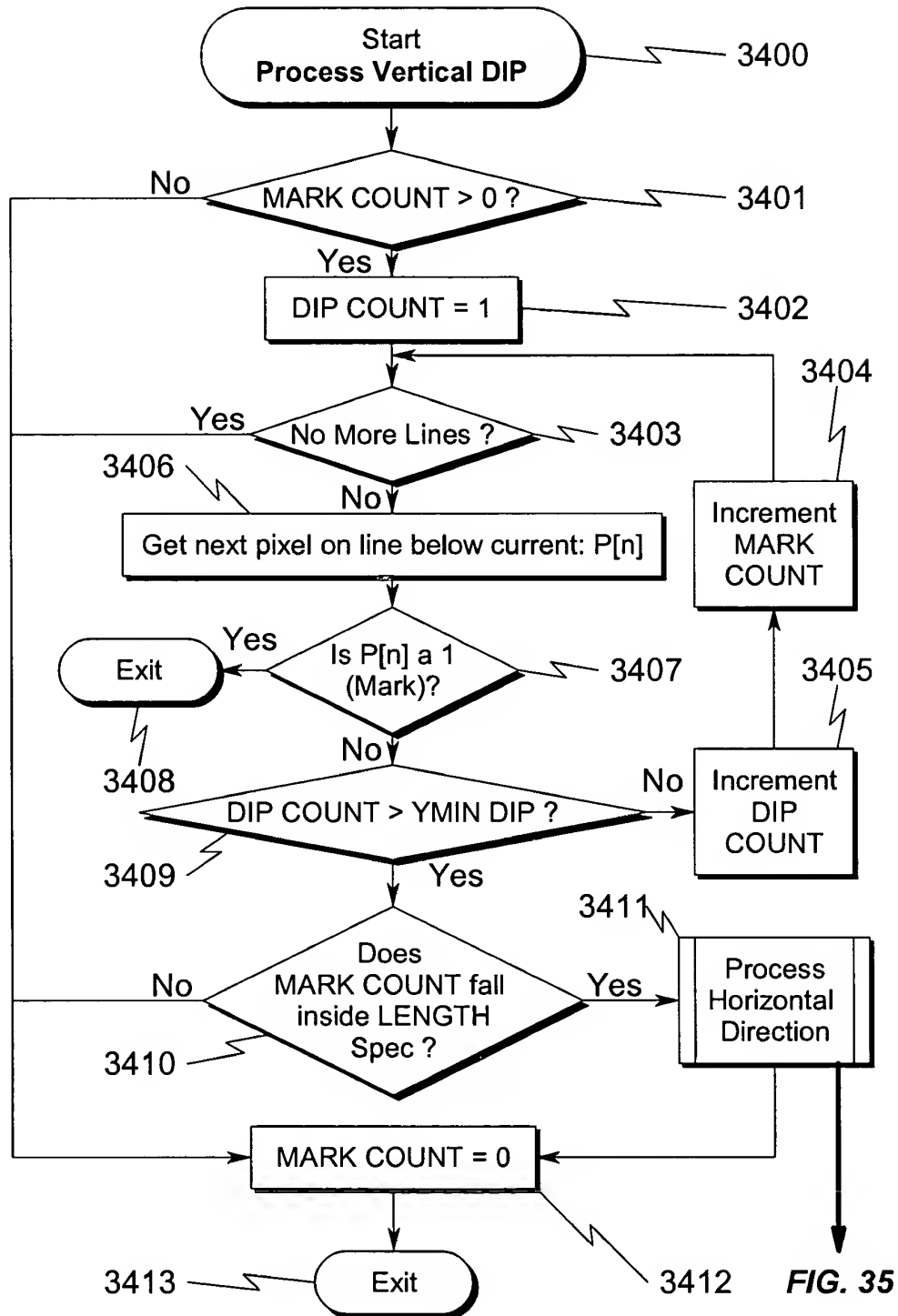




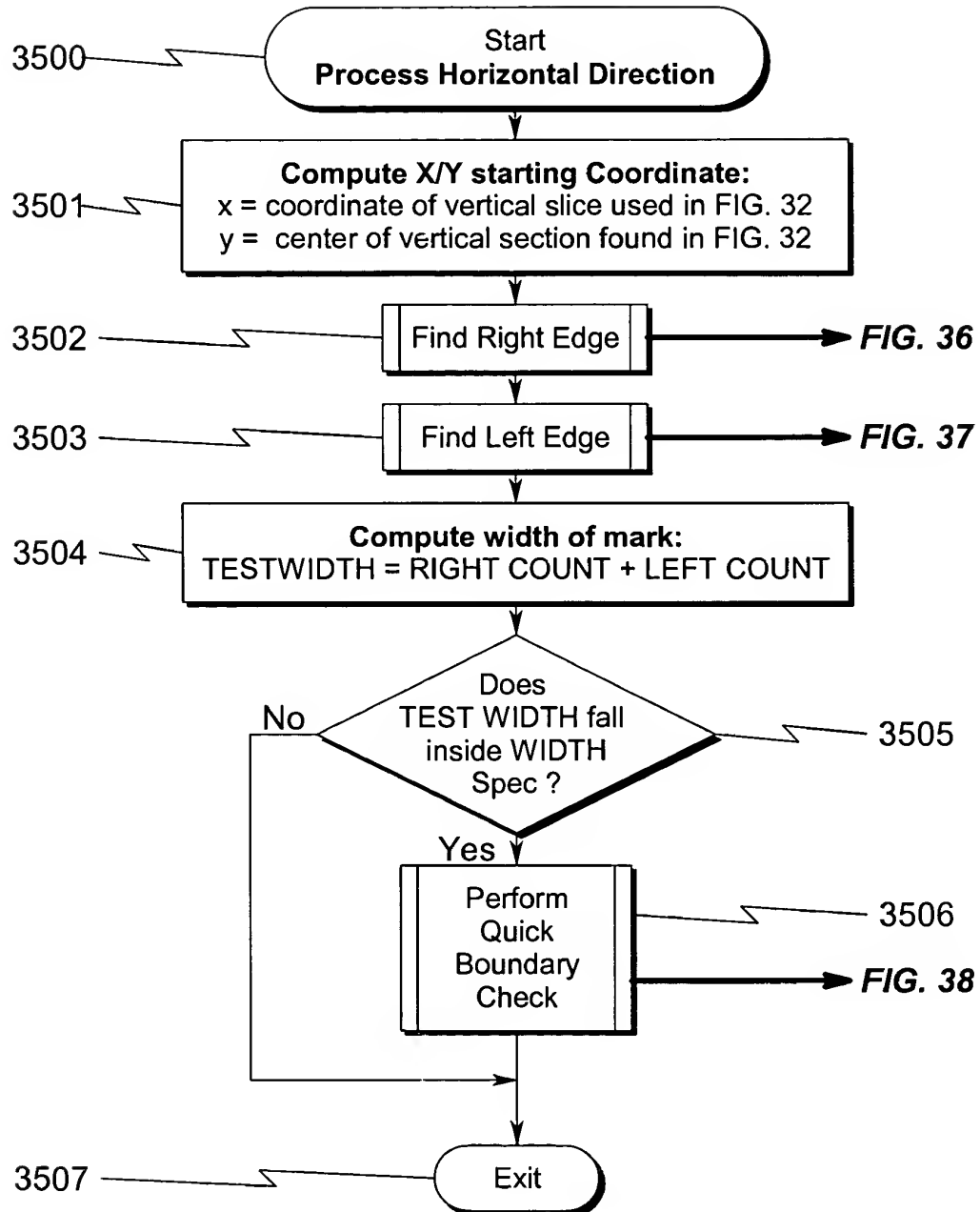
**FIG. 33**



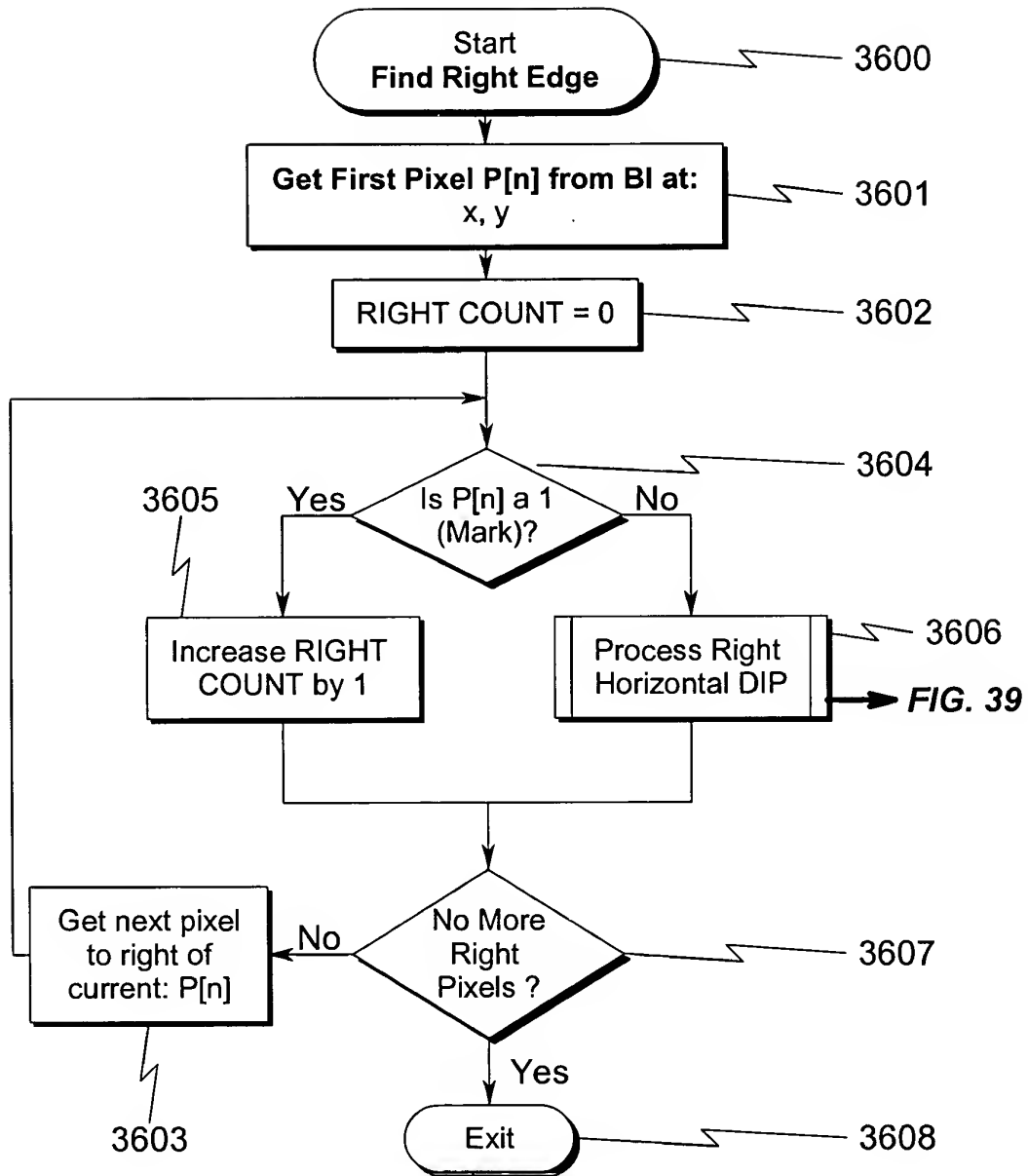
**FIG. 34**



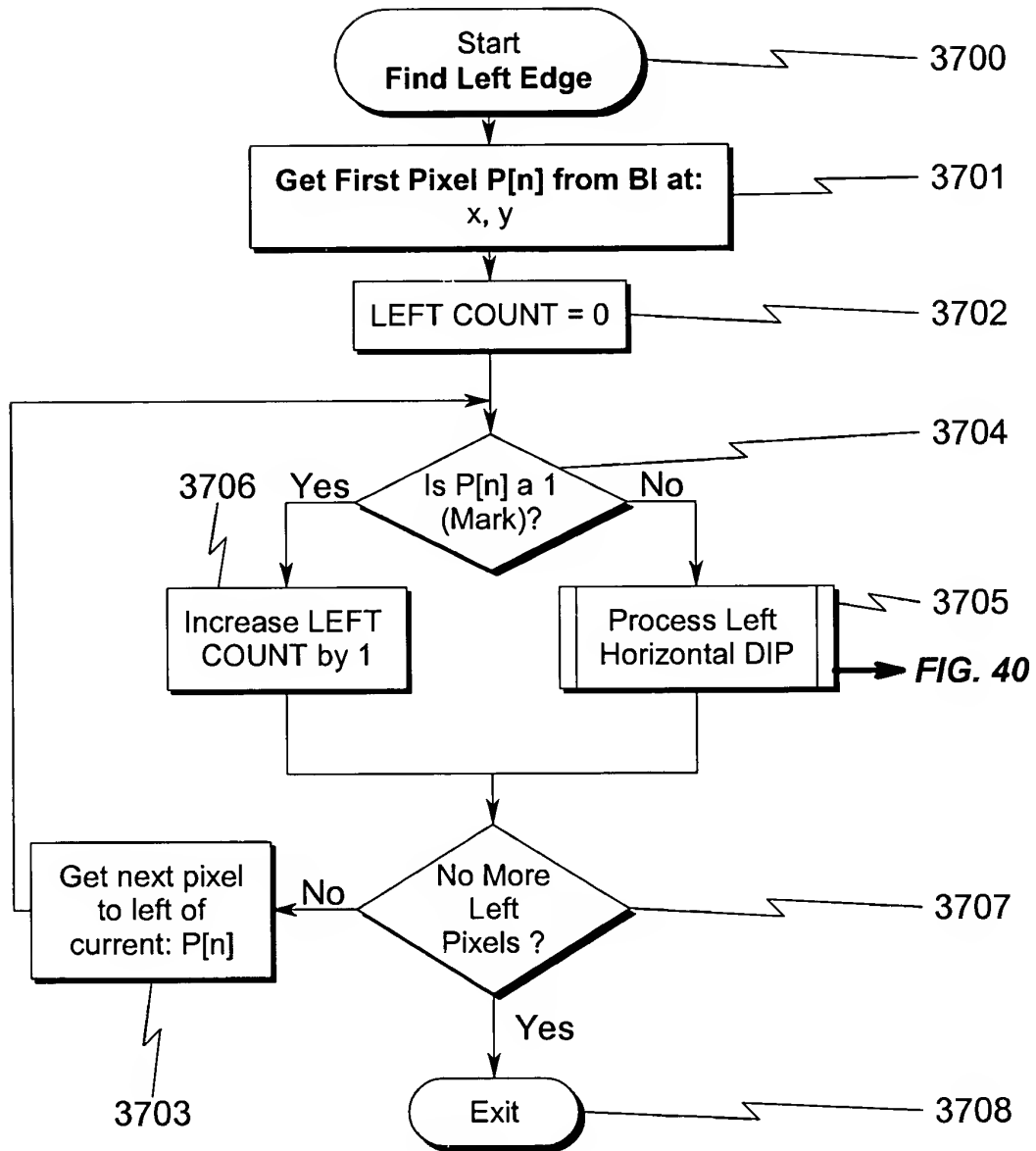
**FIG. 35**



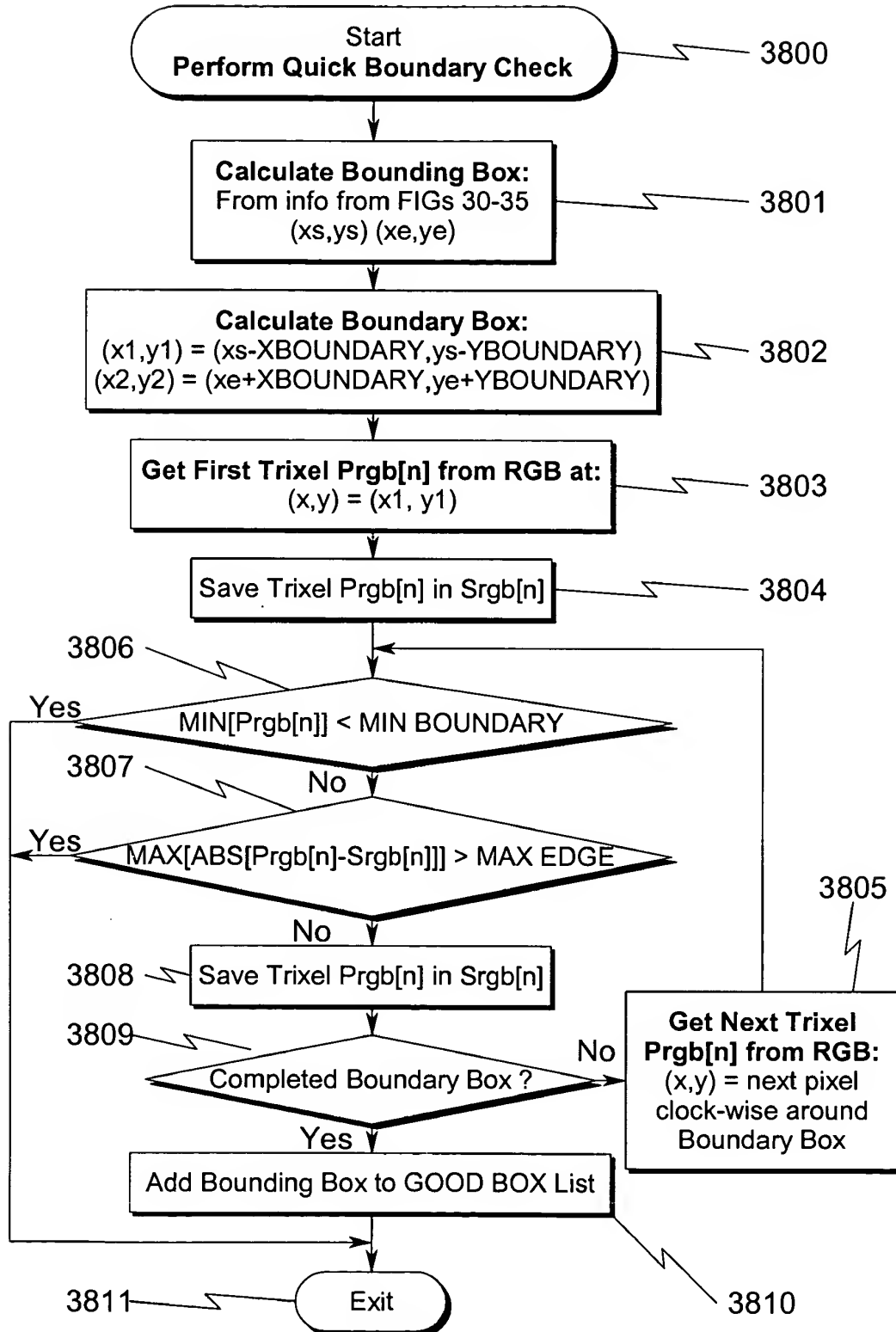
**FIG. 36**



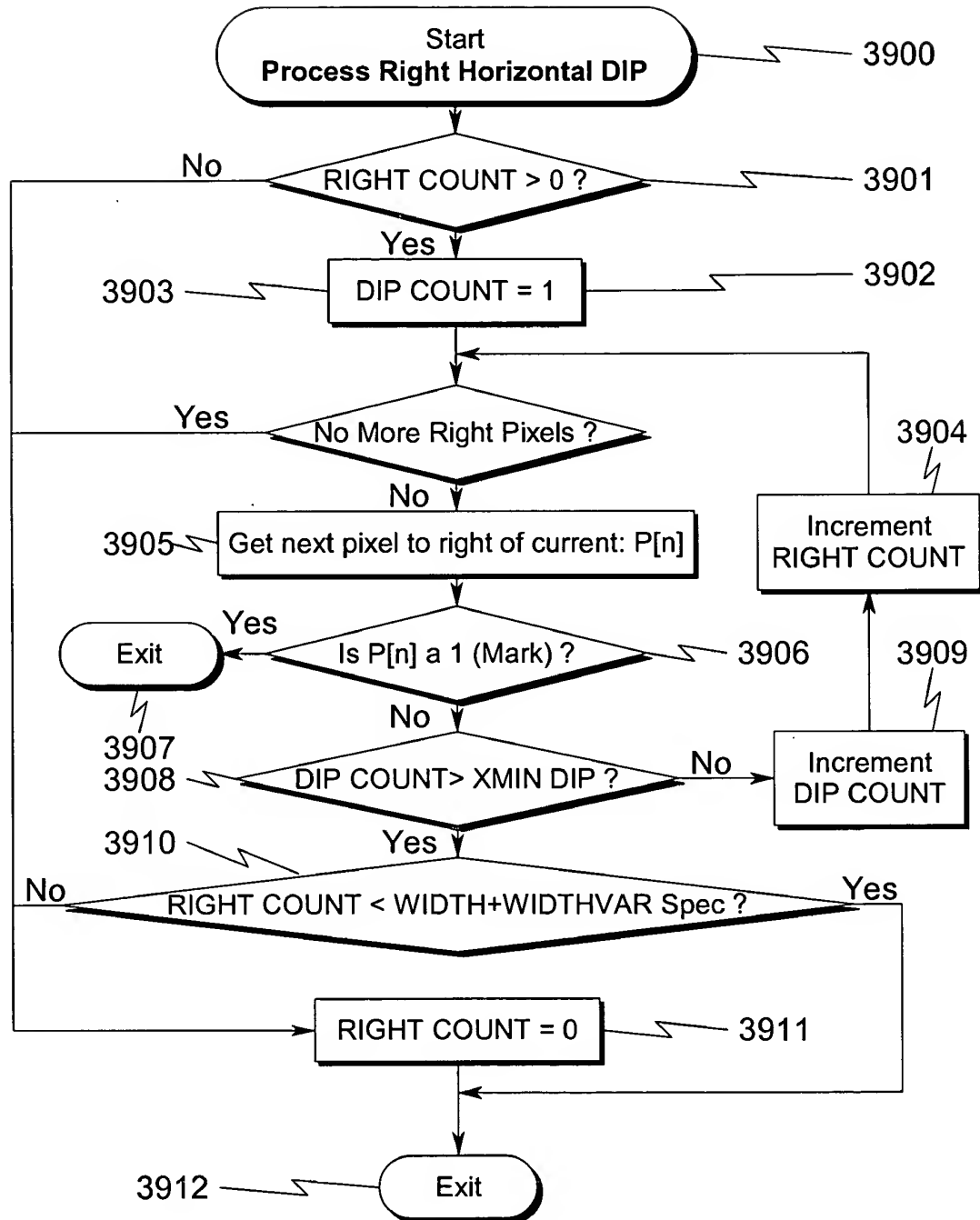
**FIG. 37**



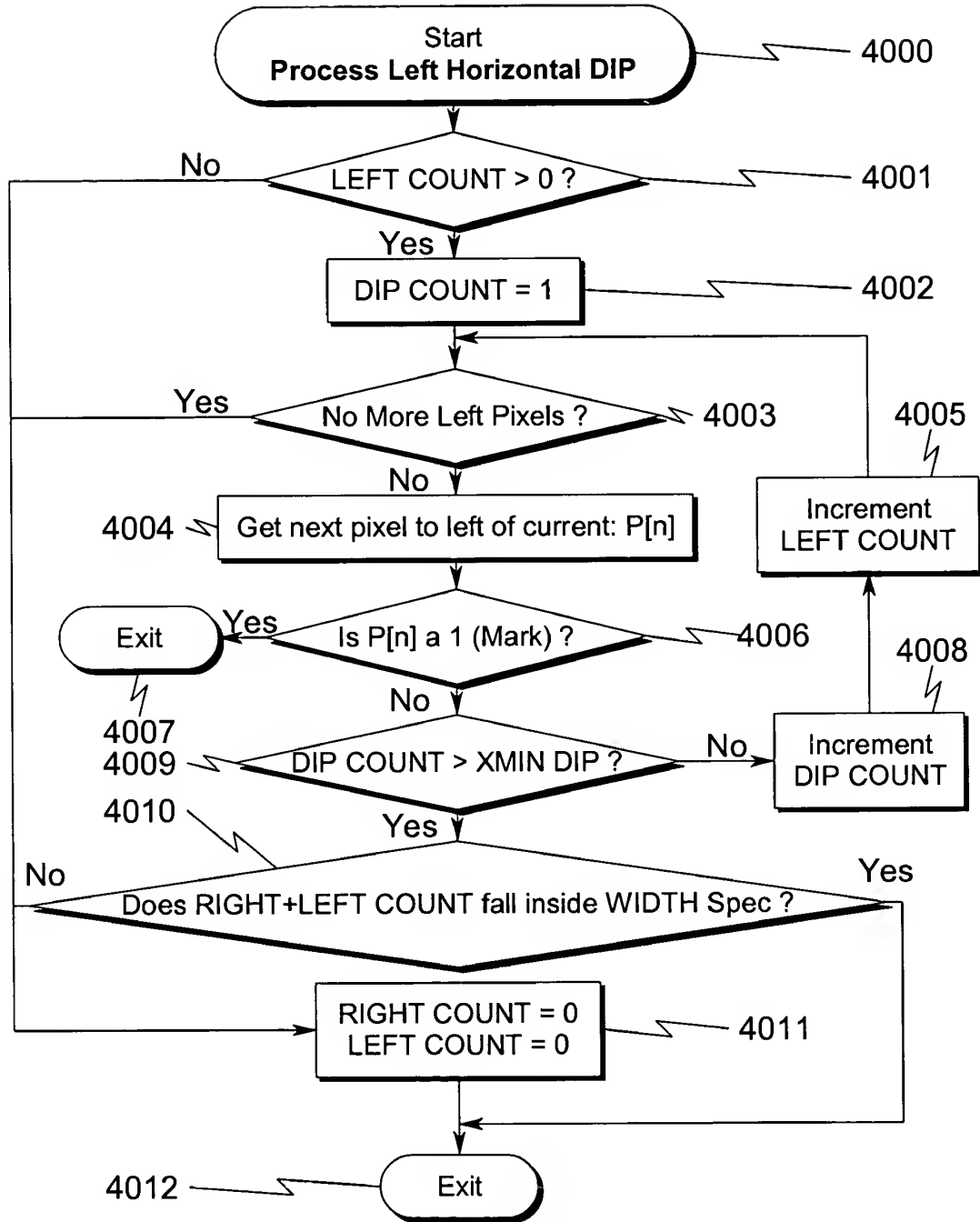
**FIG. 38**



**FIG. 39**

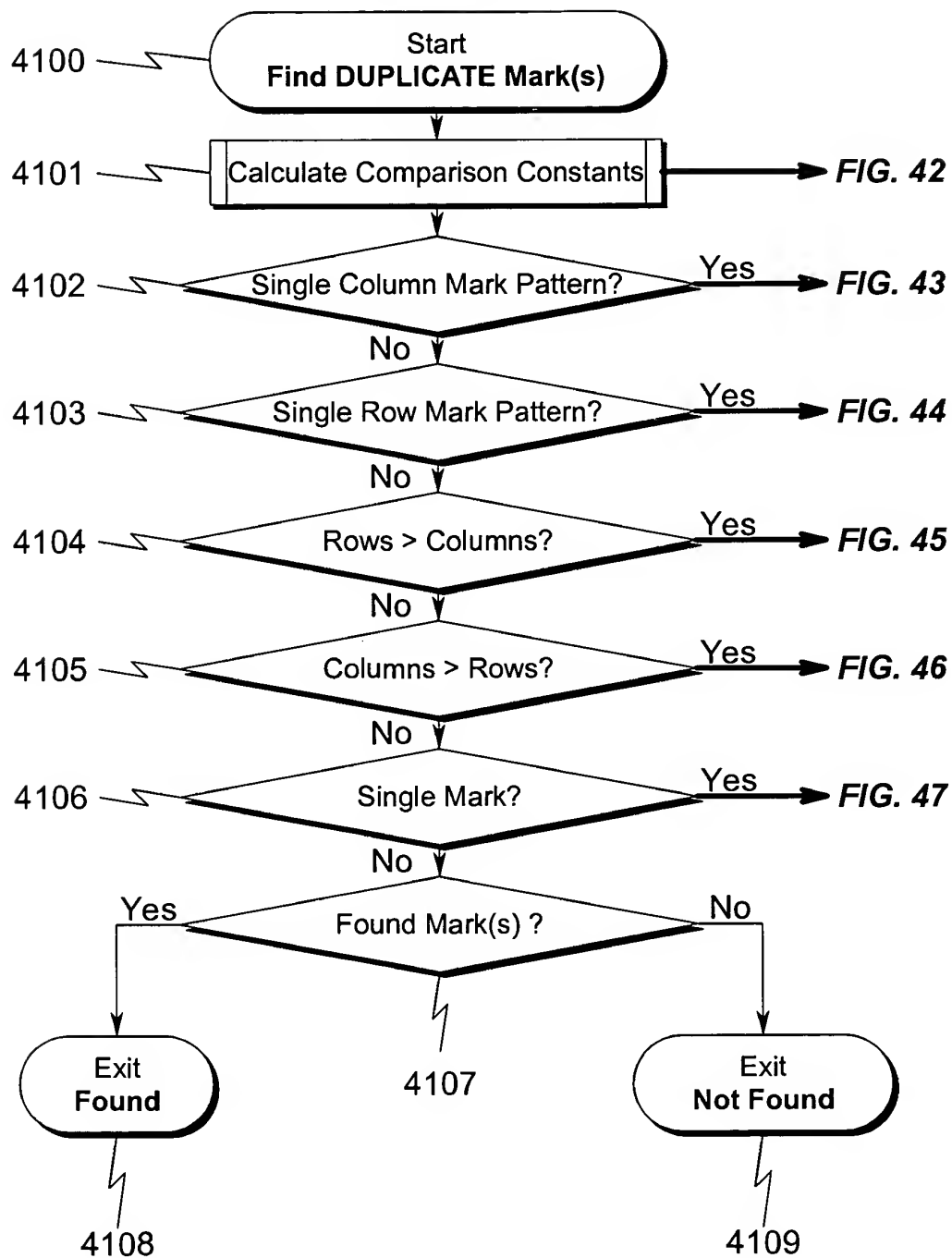


**FIG. 40**

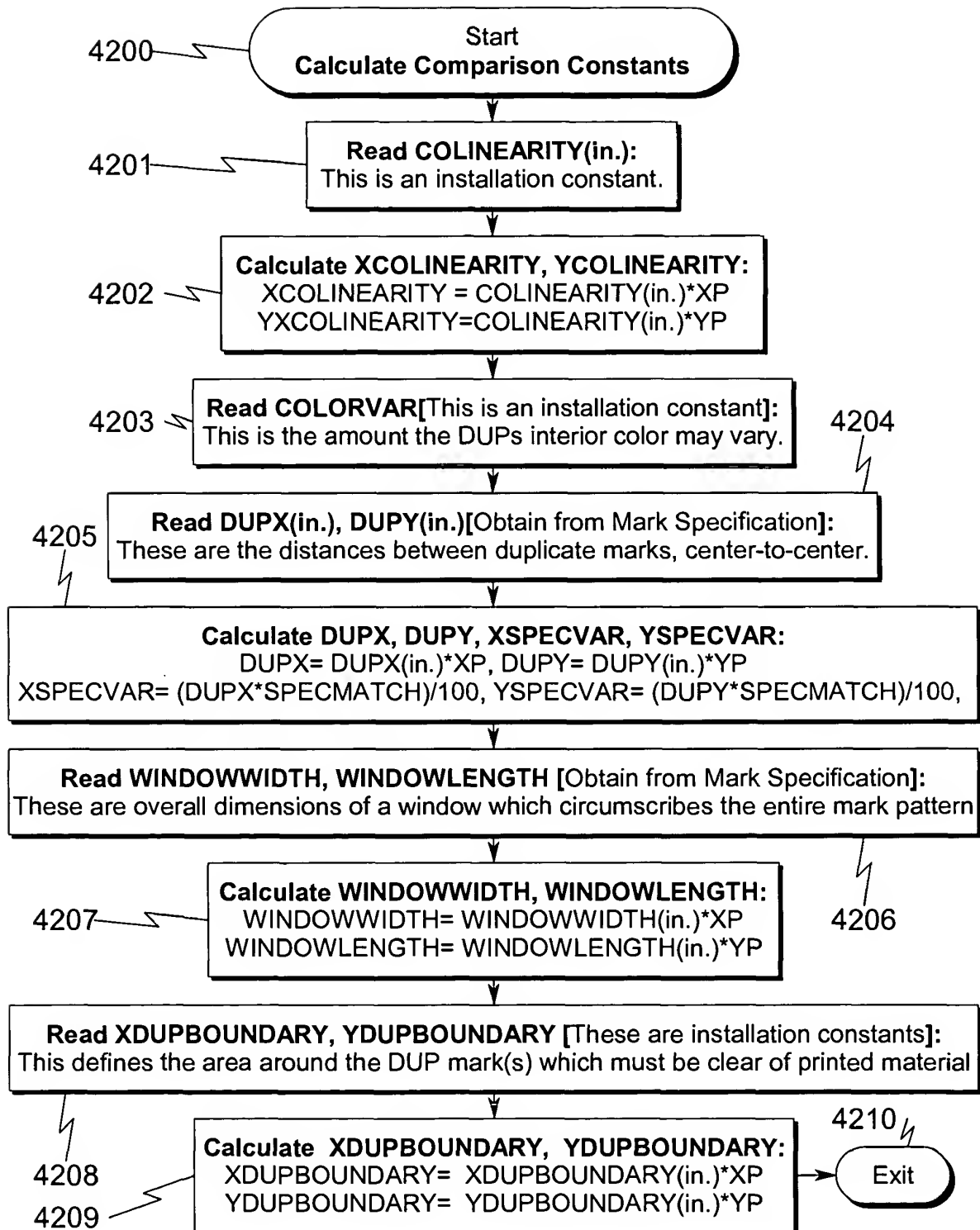




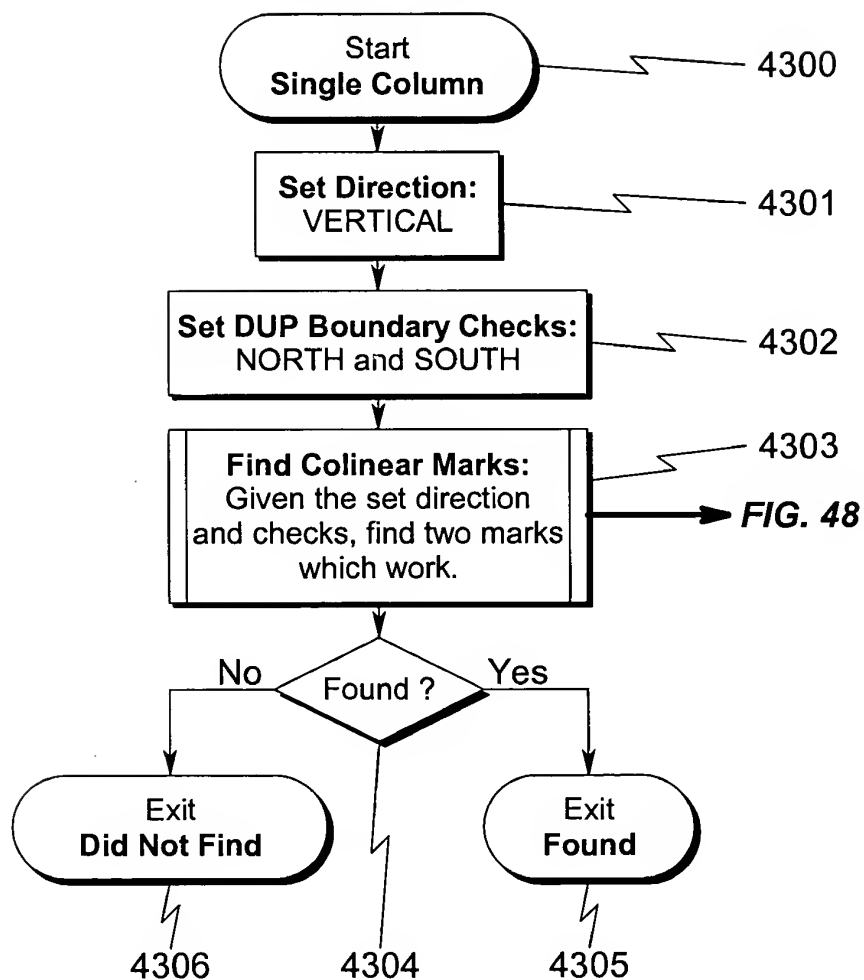
**FIG. 41**



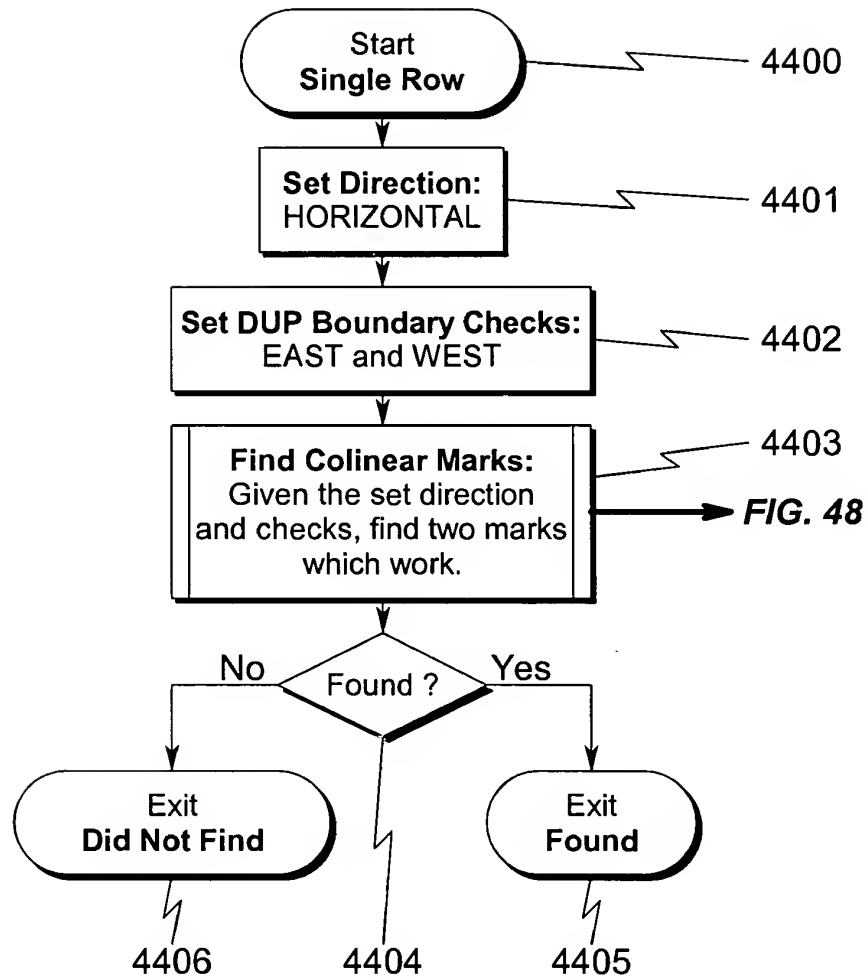
**FIG. 42**



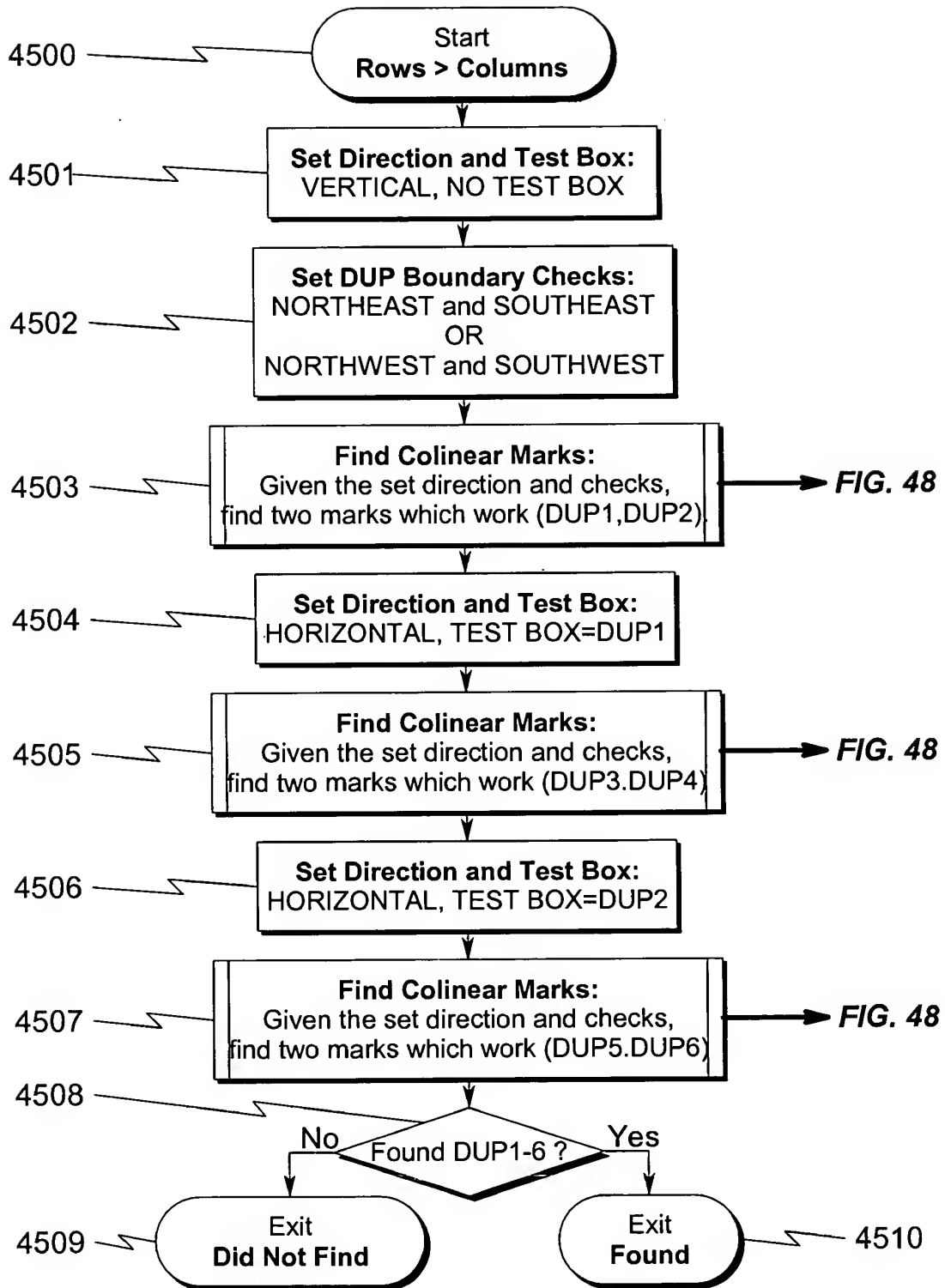
**FIG. 43**



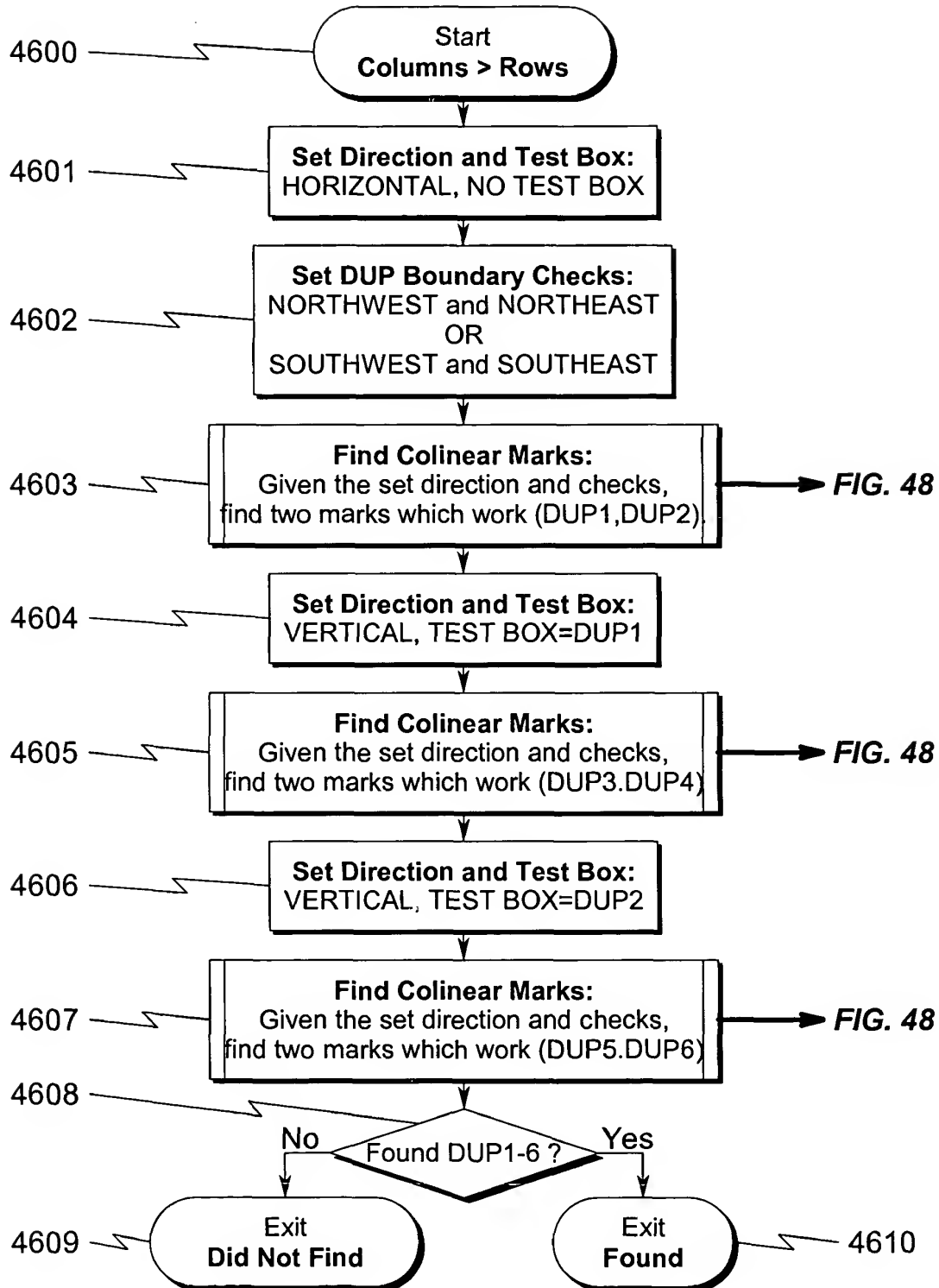
**FIG. 44**



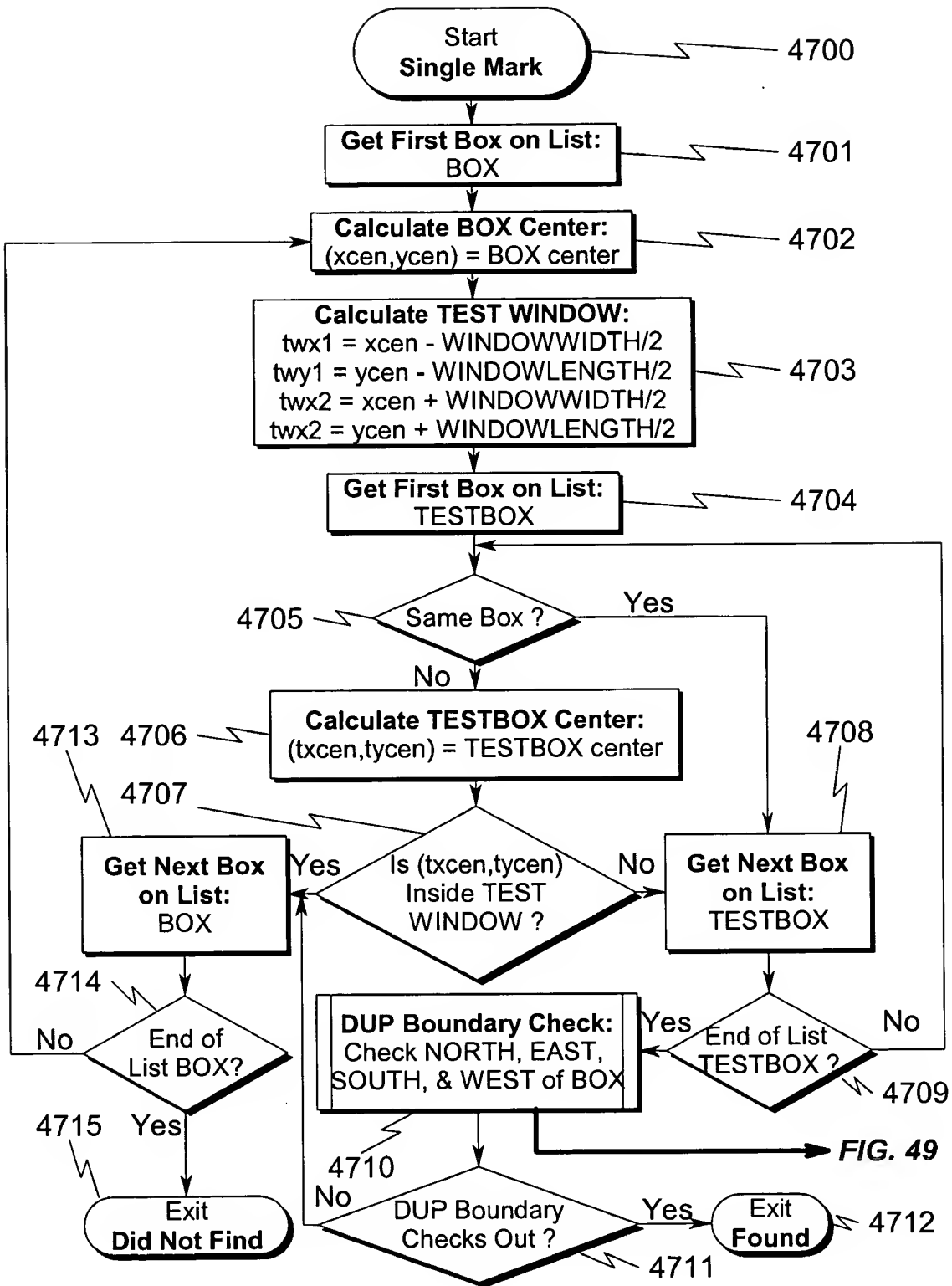
**FIG. 45**



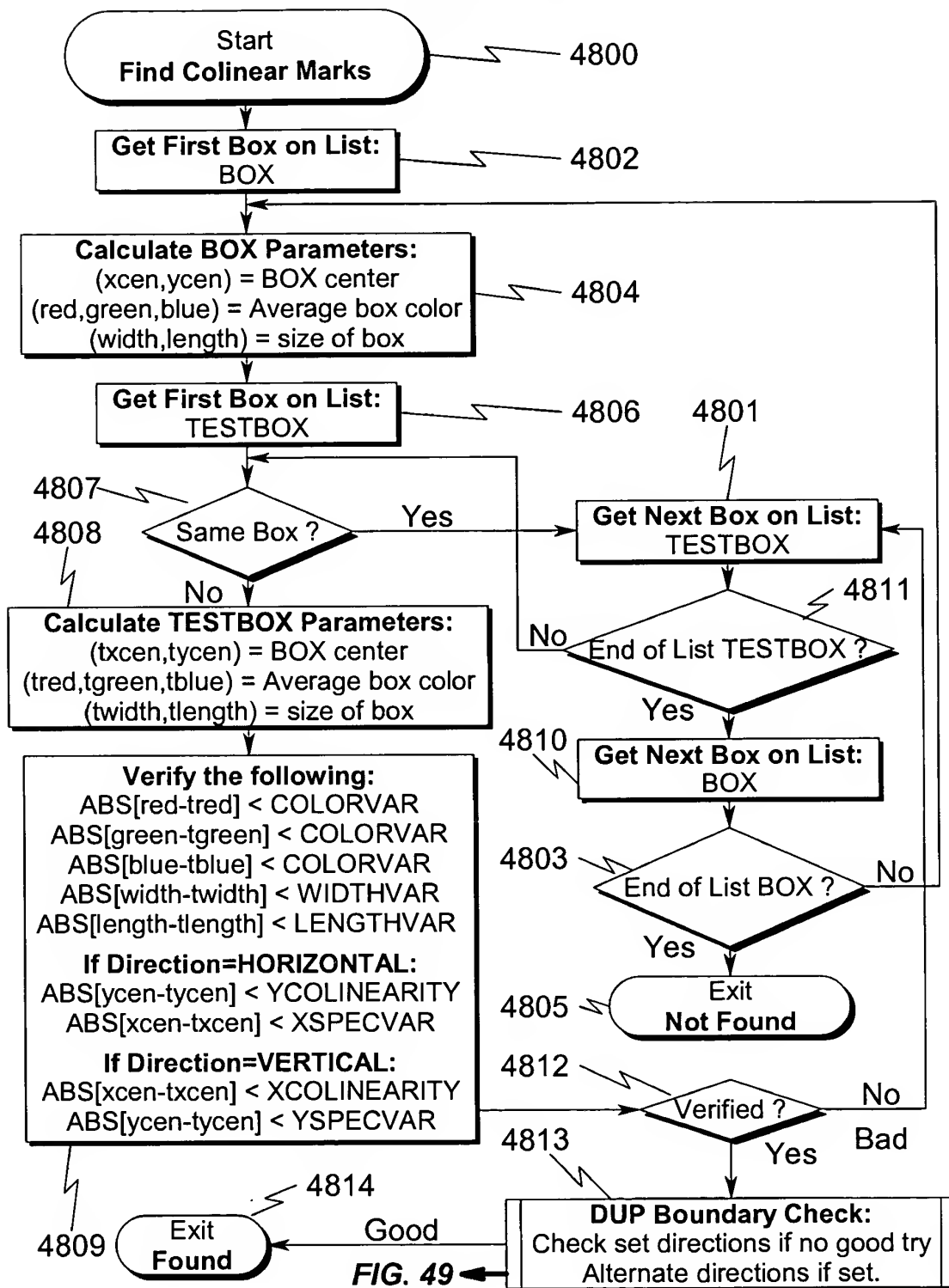
**FIG. 46**



**FIG. 47**

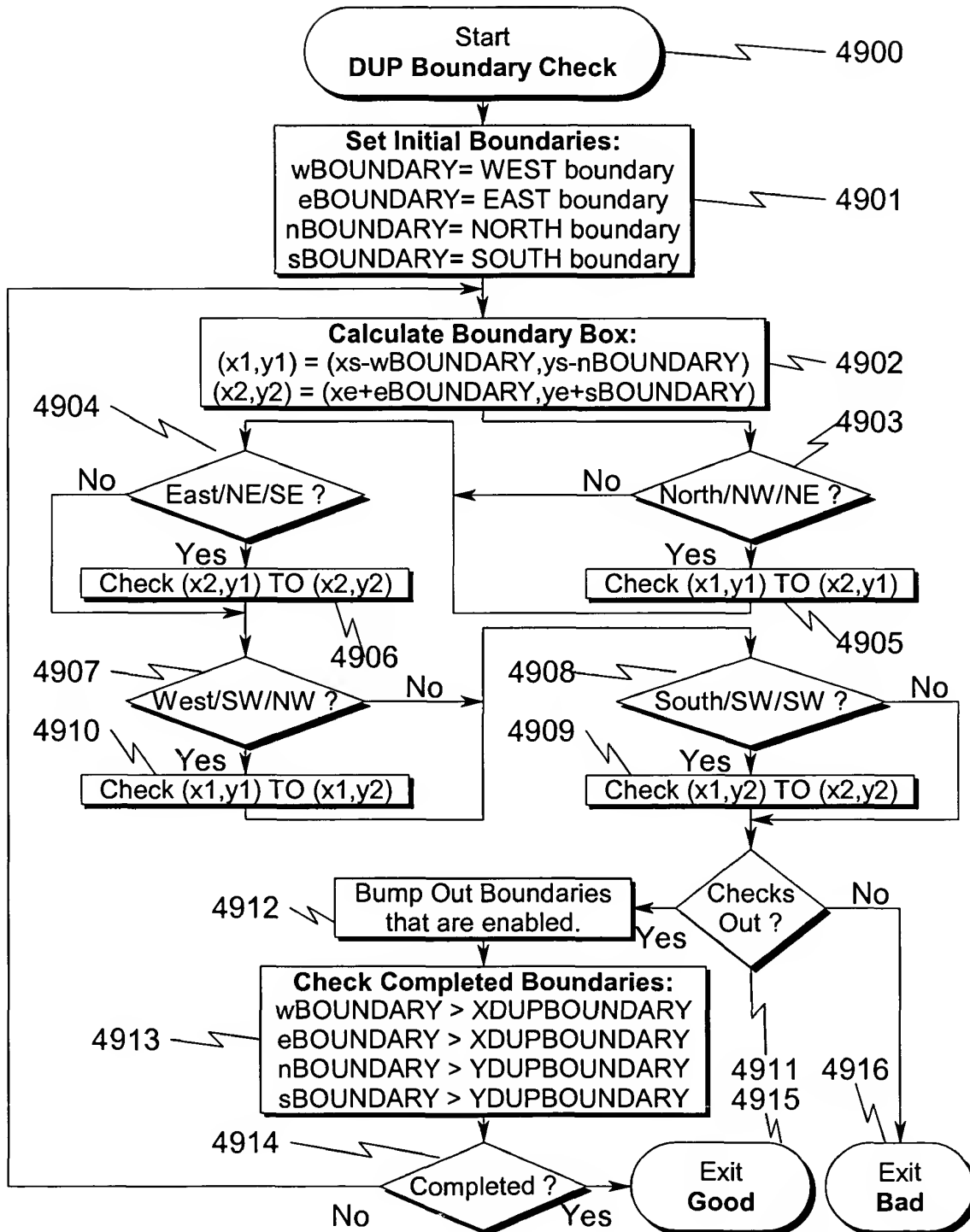


**FIG. 48**

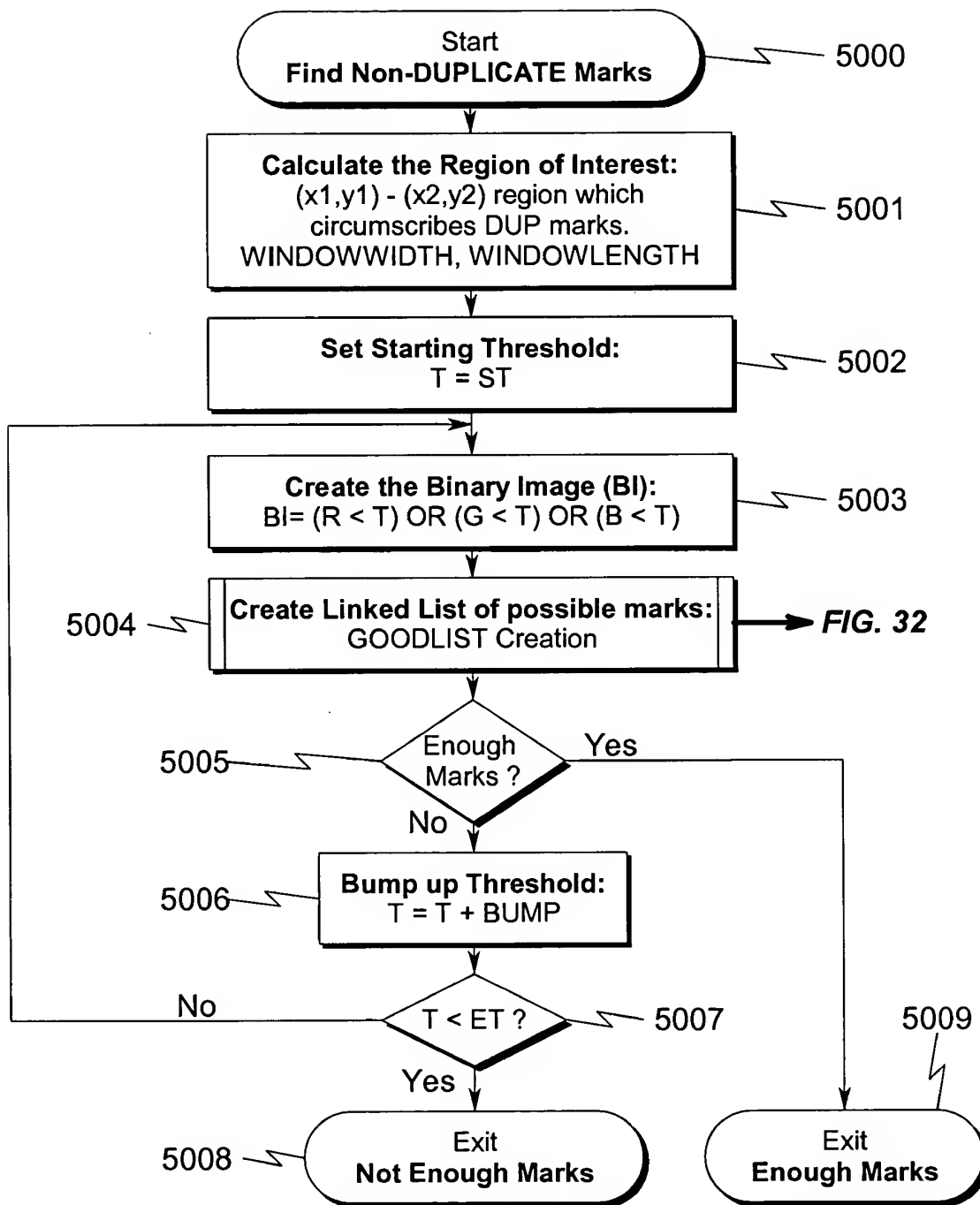




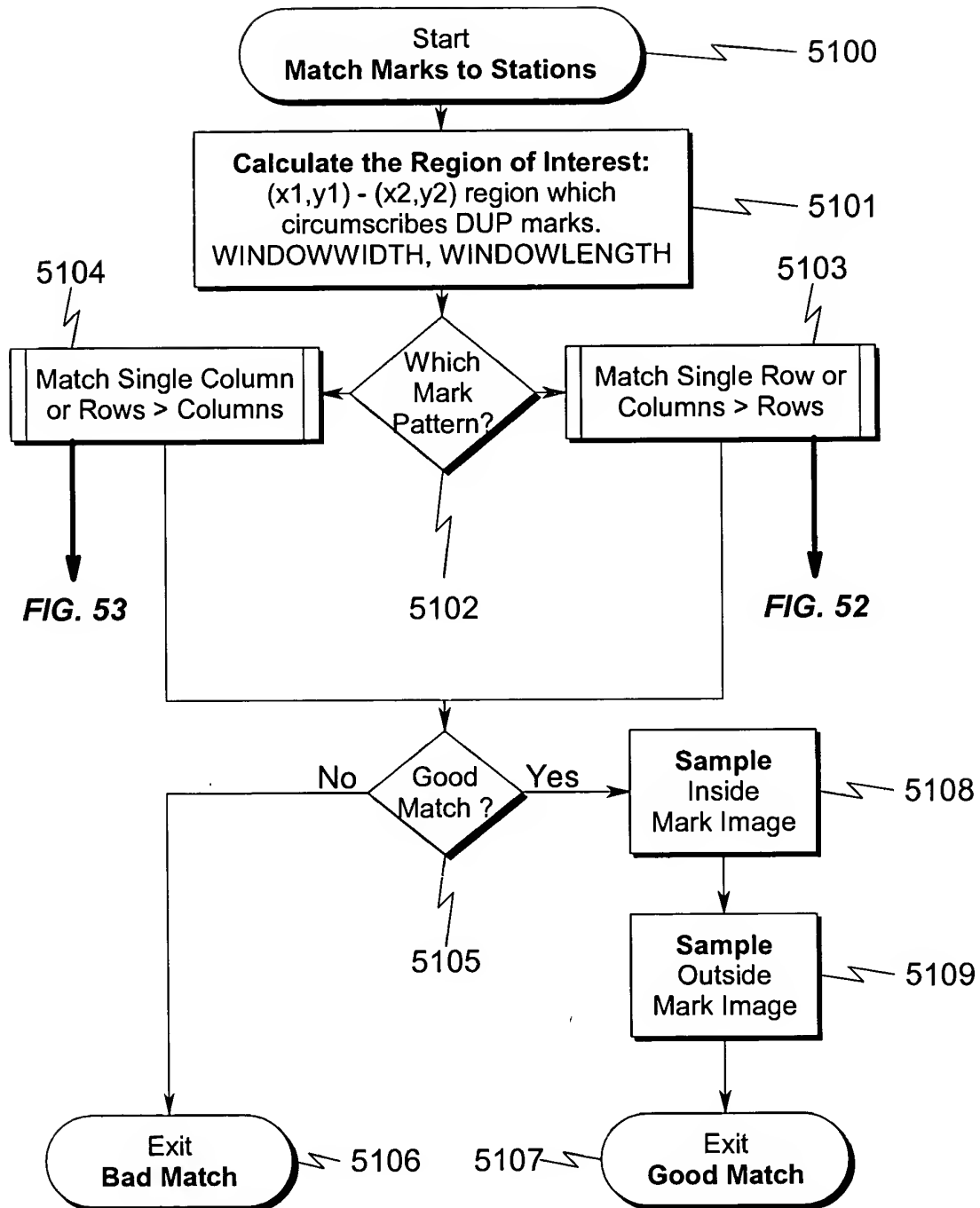
**FIG. 49**



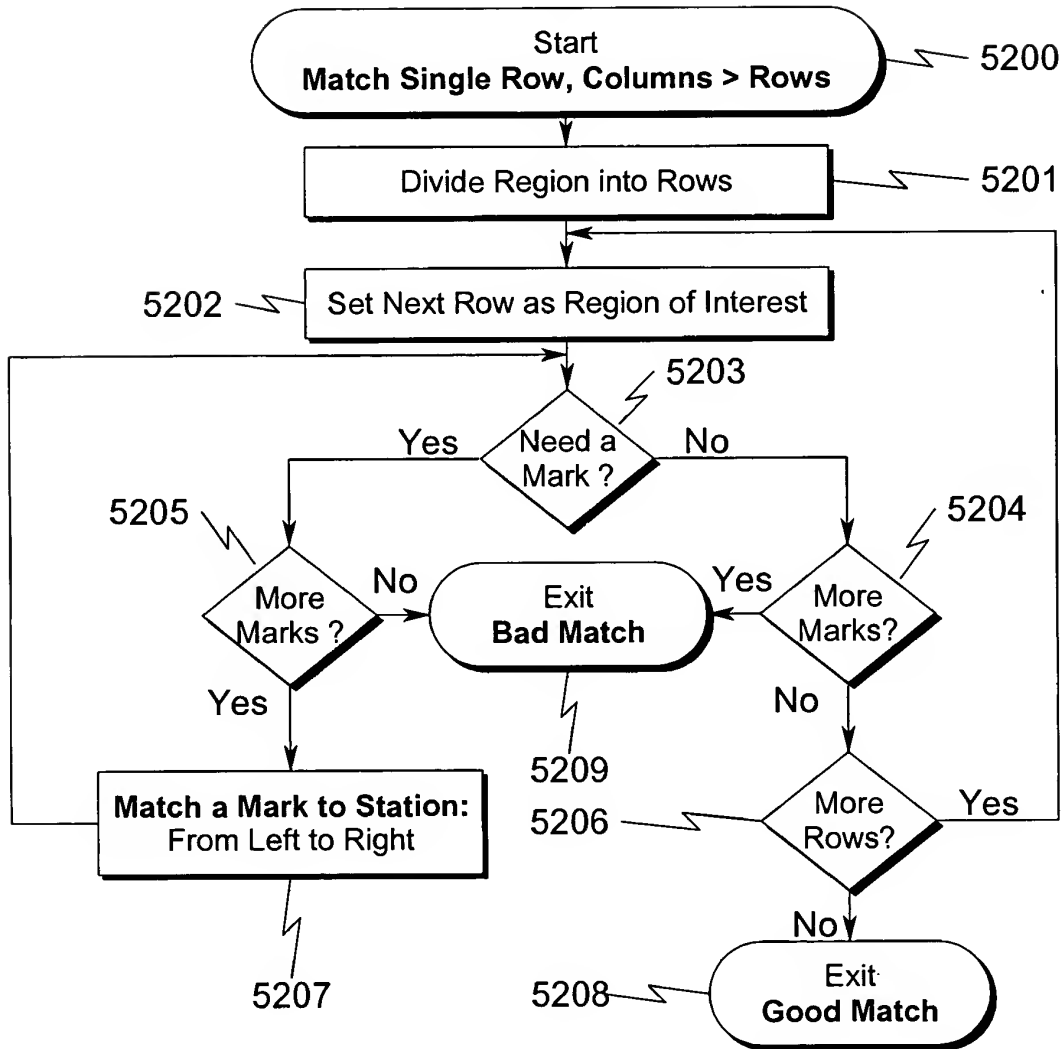
**FIG. 50**



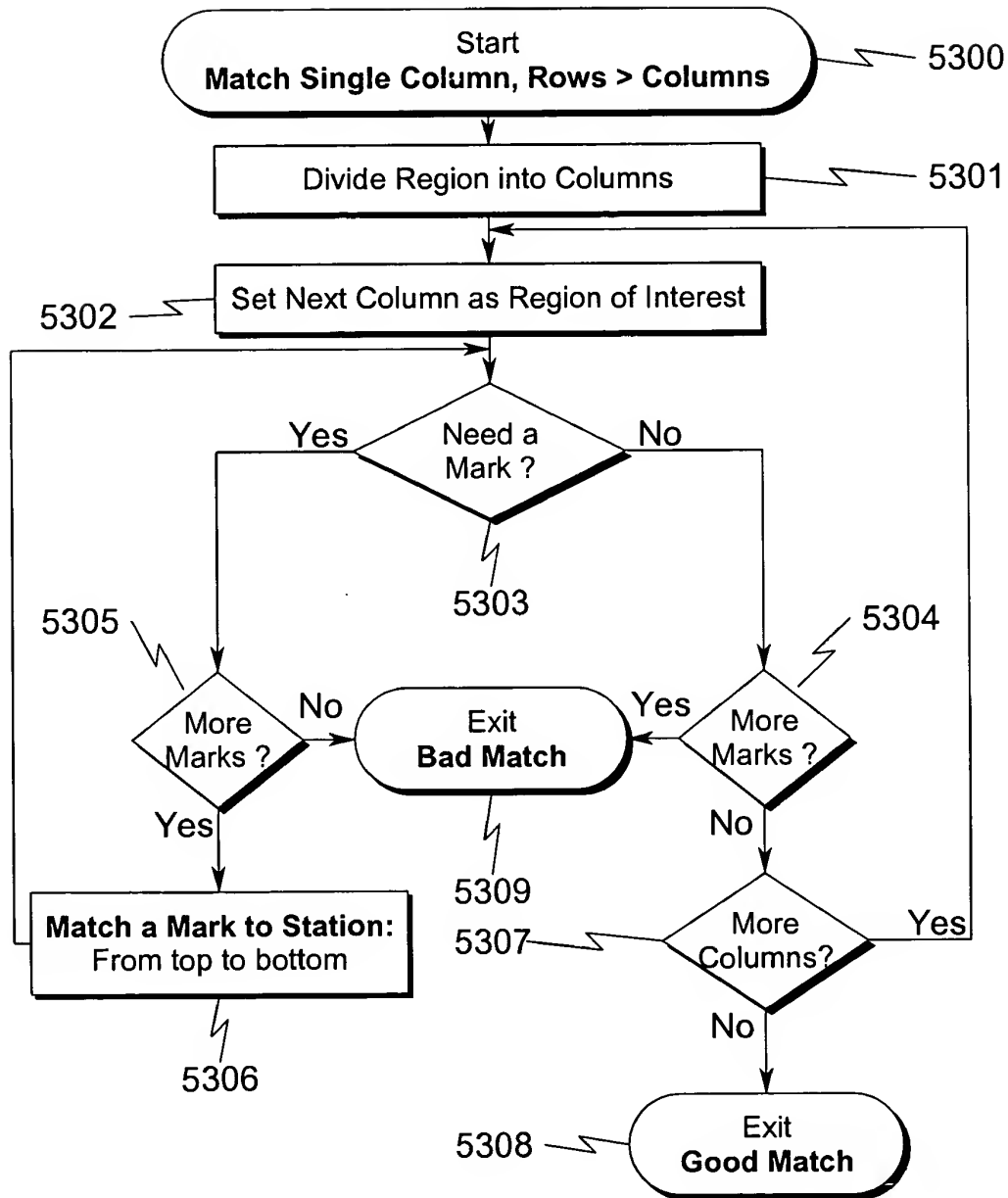
**FIG. 51**



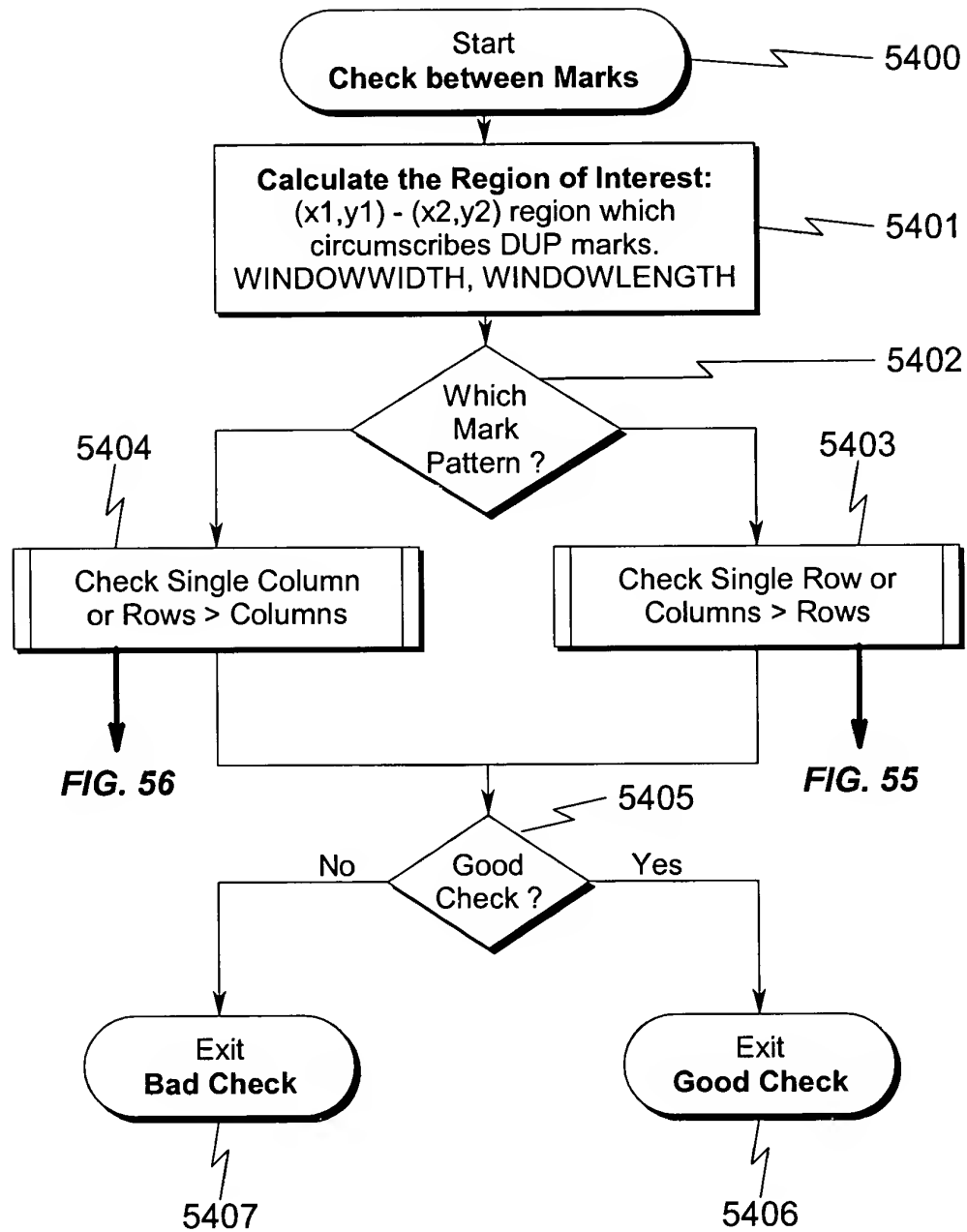
**FIG. 52**



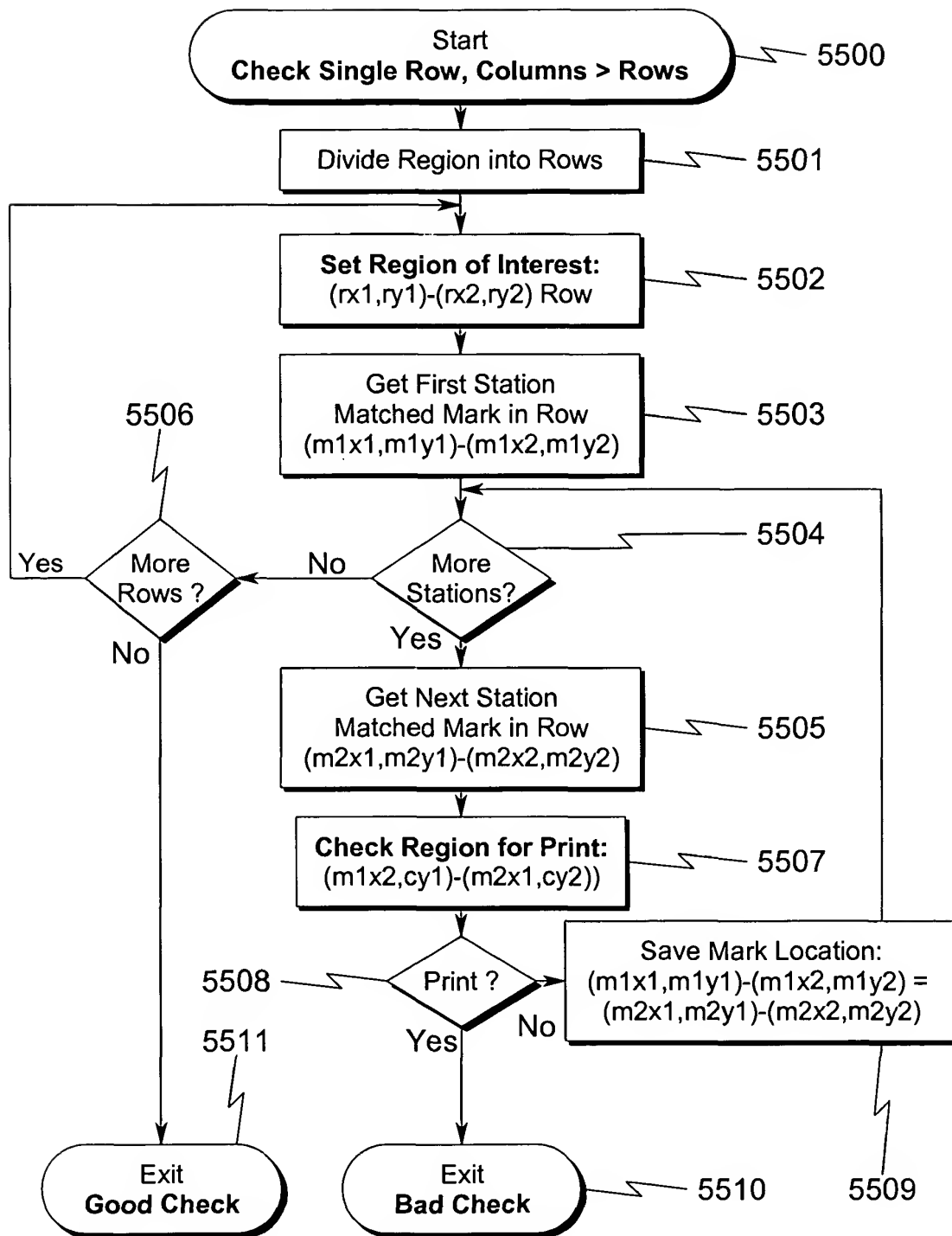
**FIG. 53**



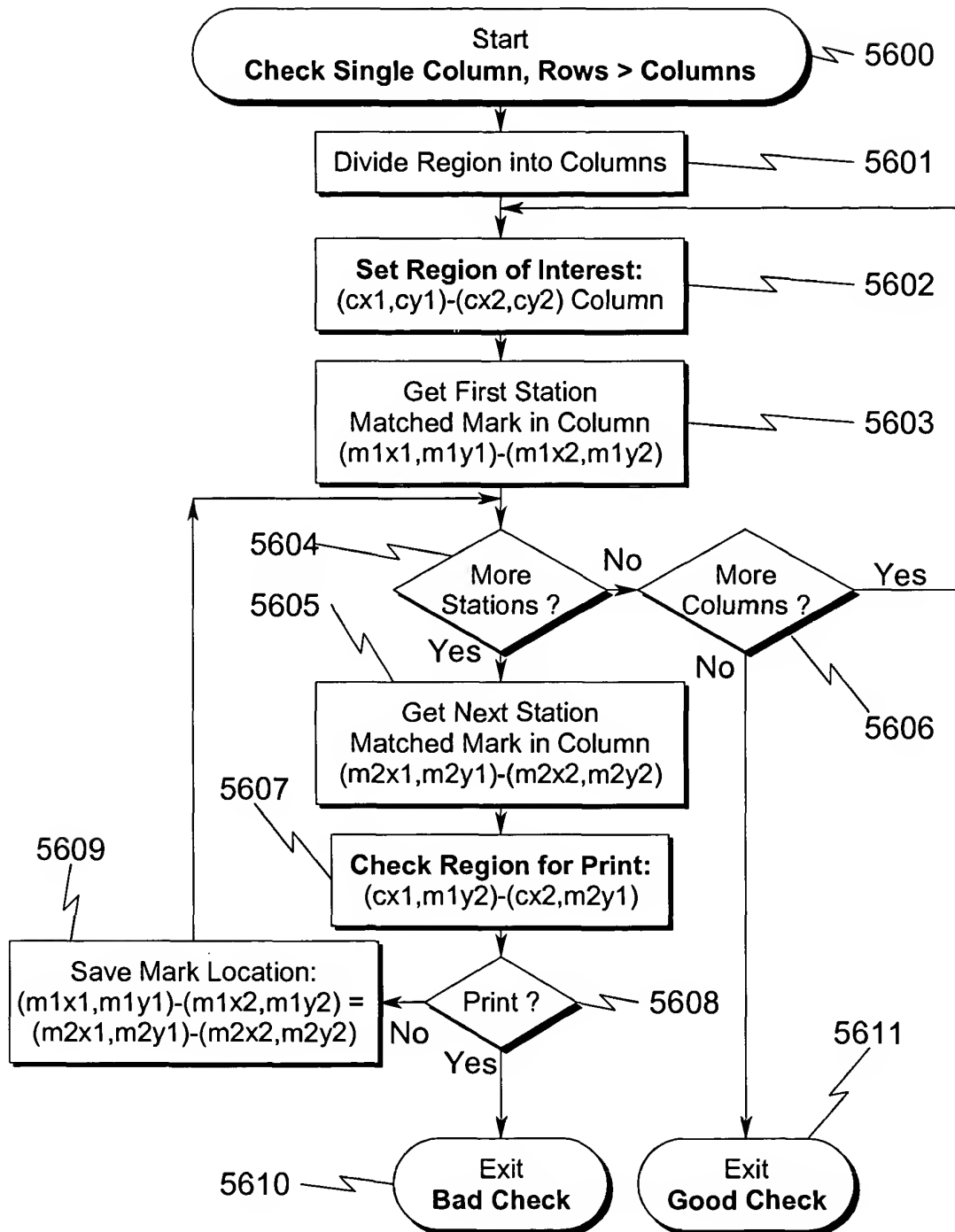
**FIG. 54**



**FIG. 55**

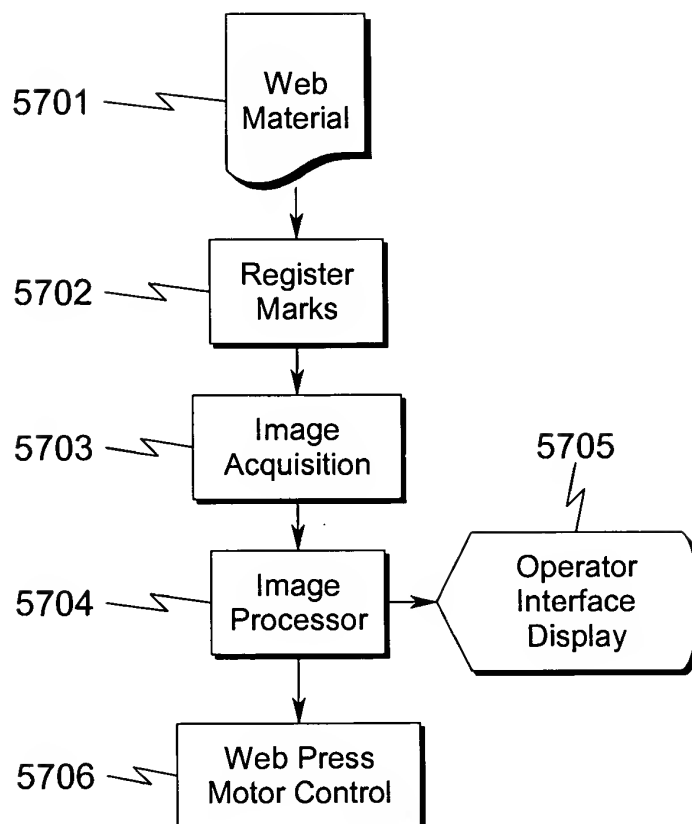


**FIG. 56**

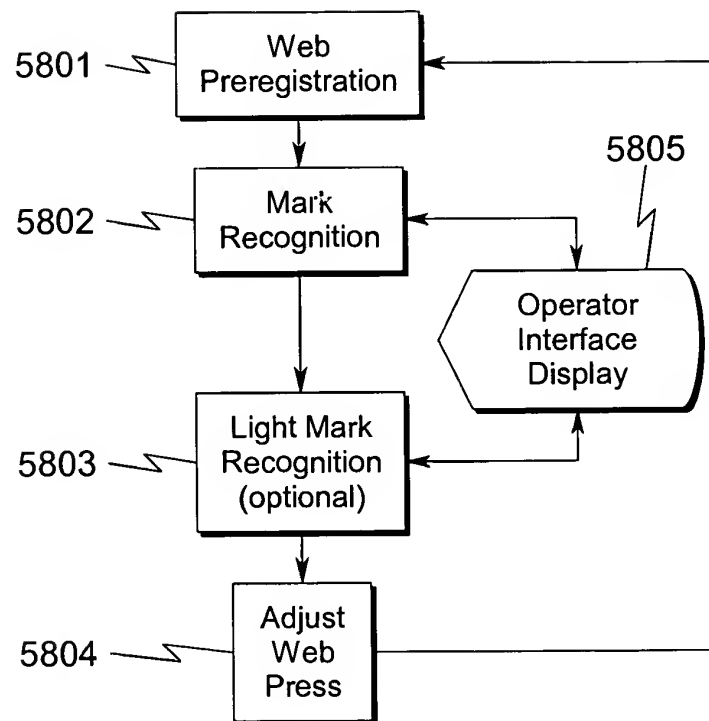




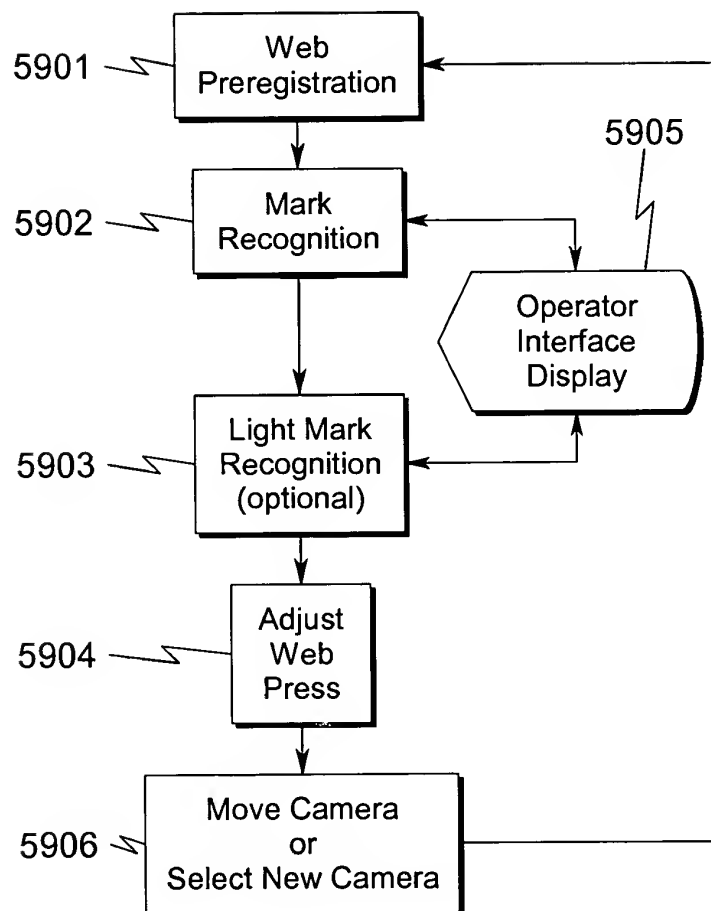
**FIG. 57**



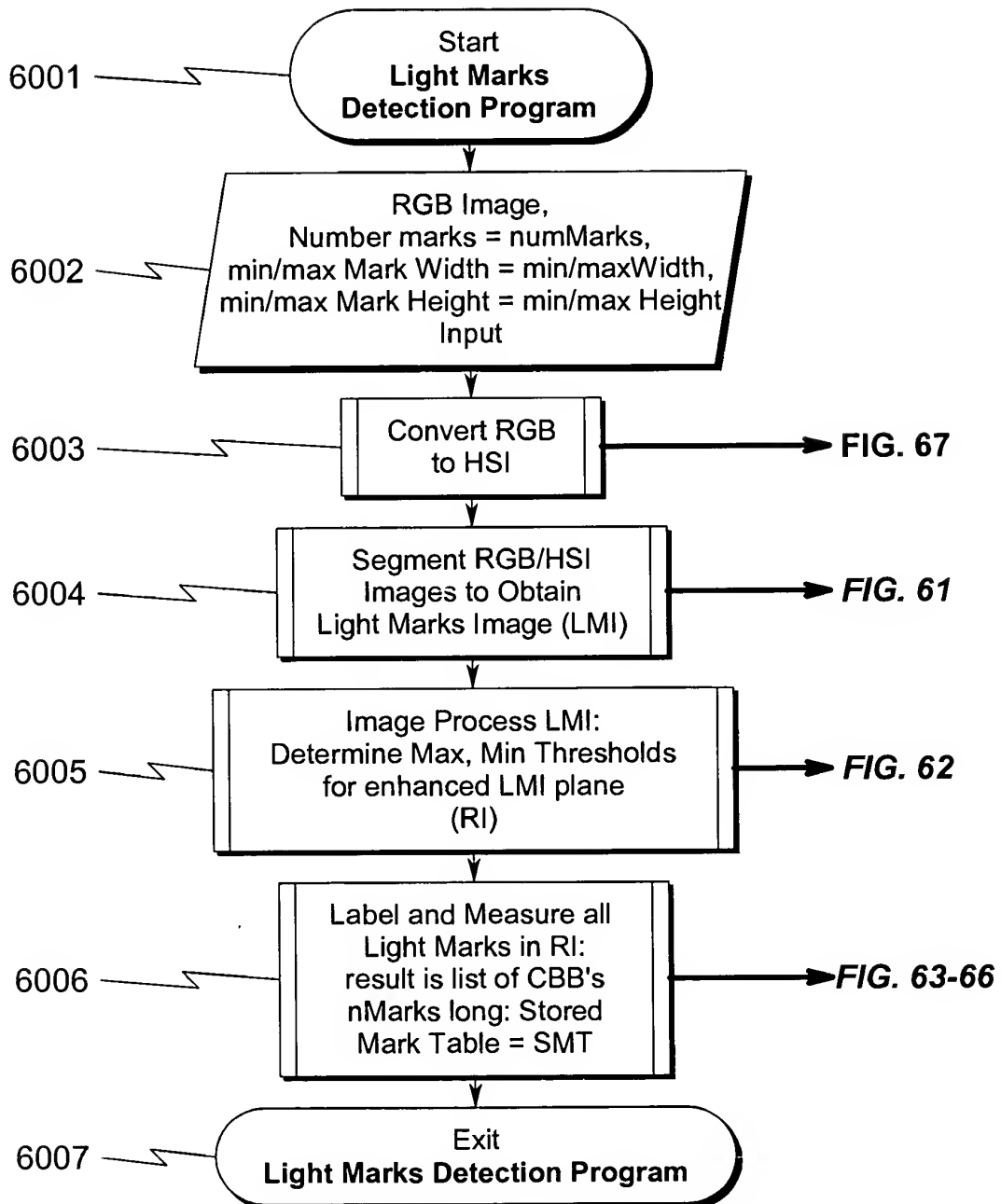
**FIG. 58**



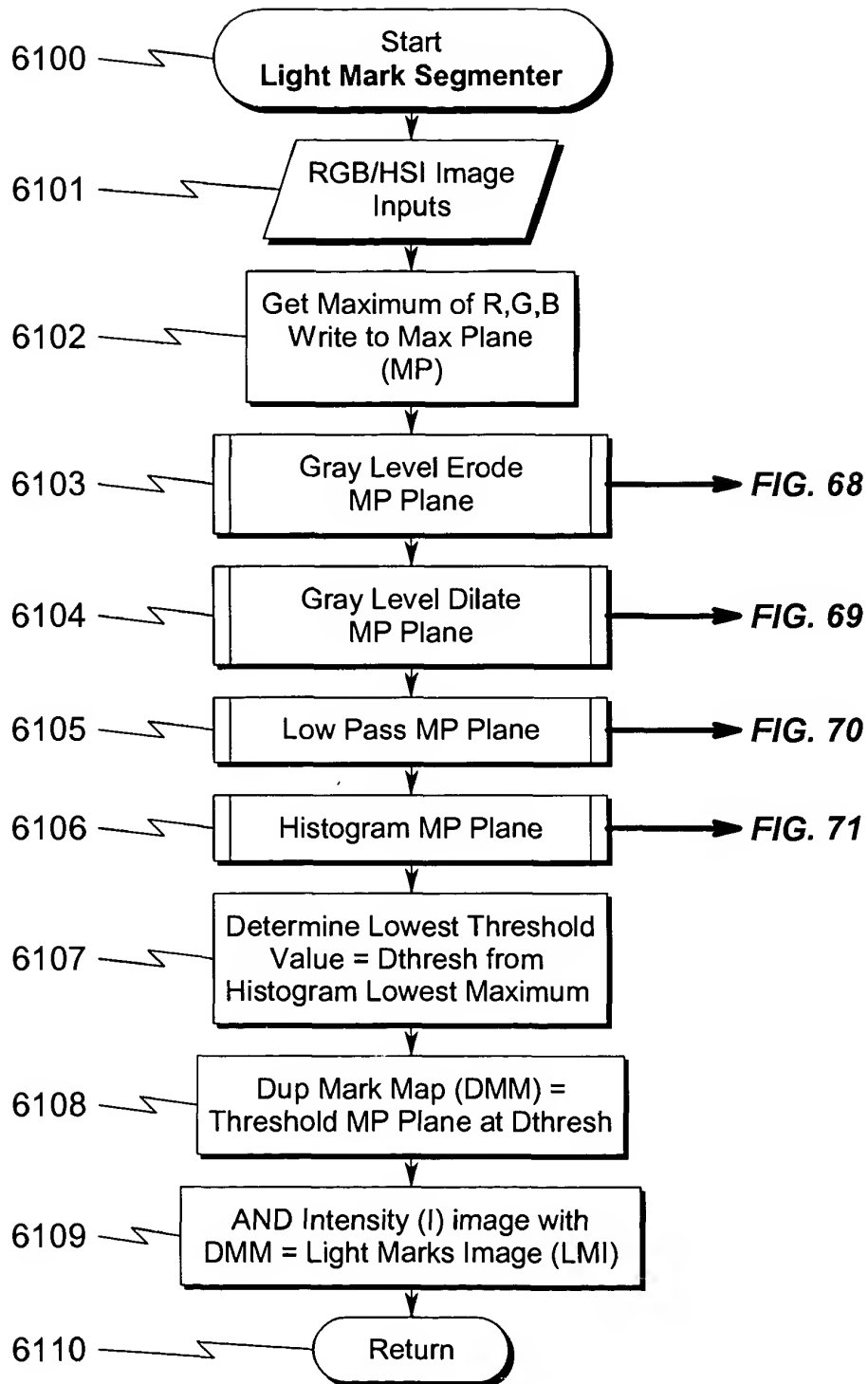
**FIG. 59**



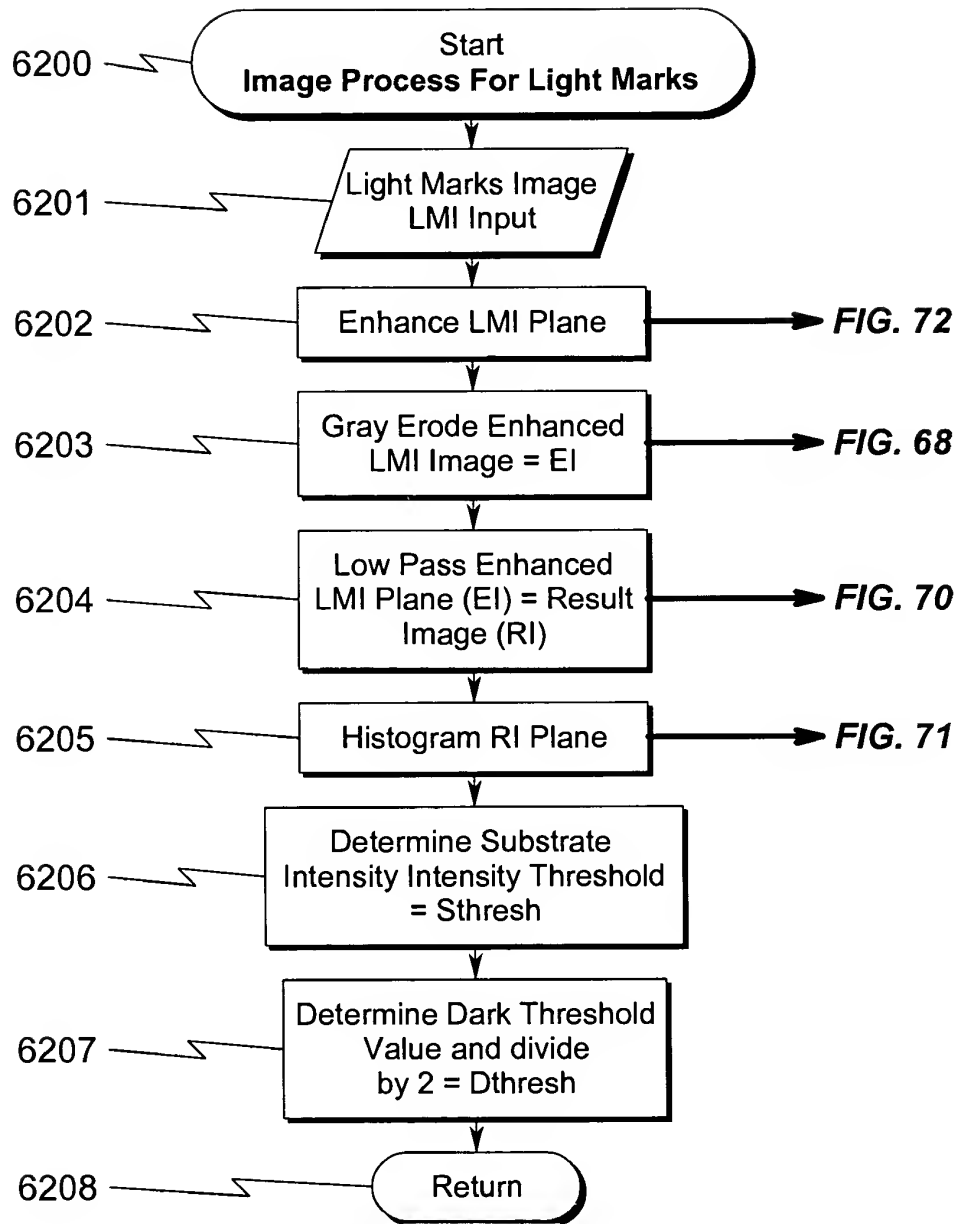
**FIG. 60**



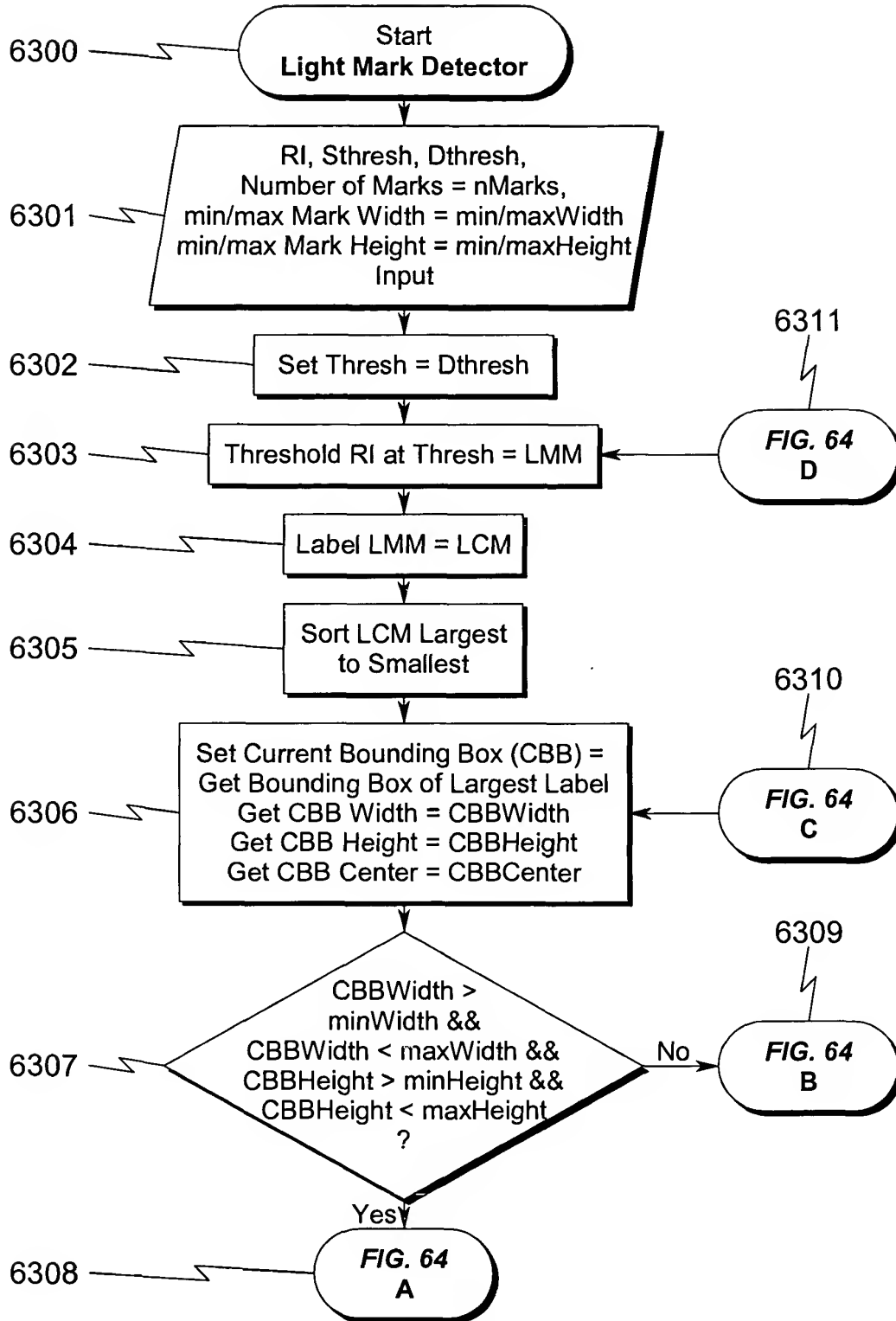
**FIG. 61**



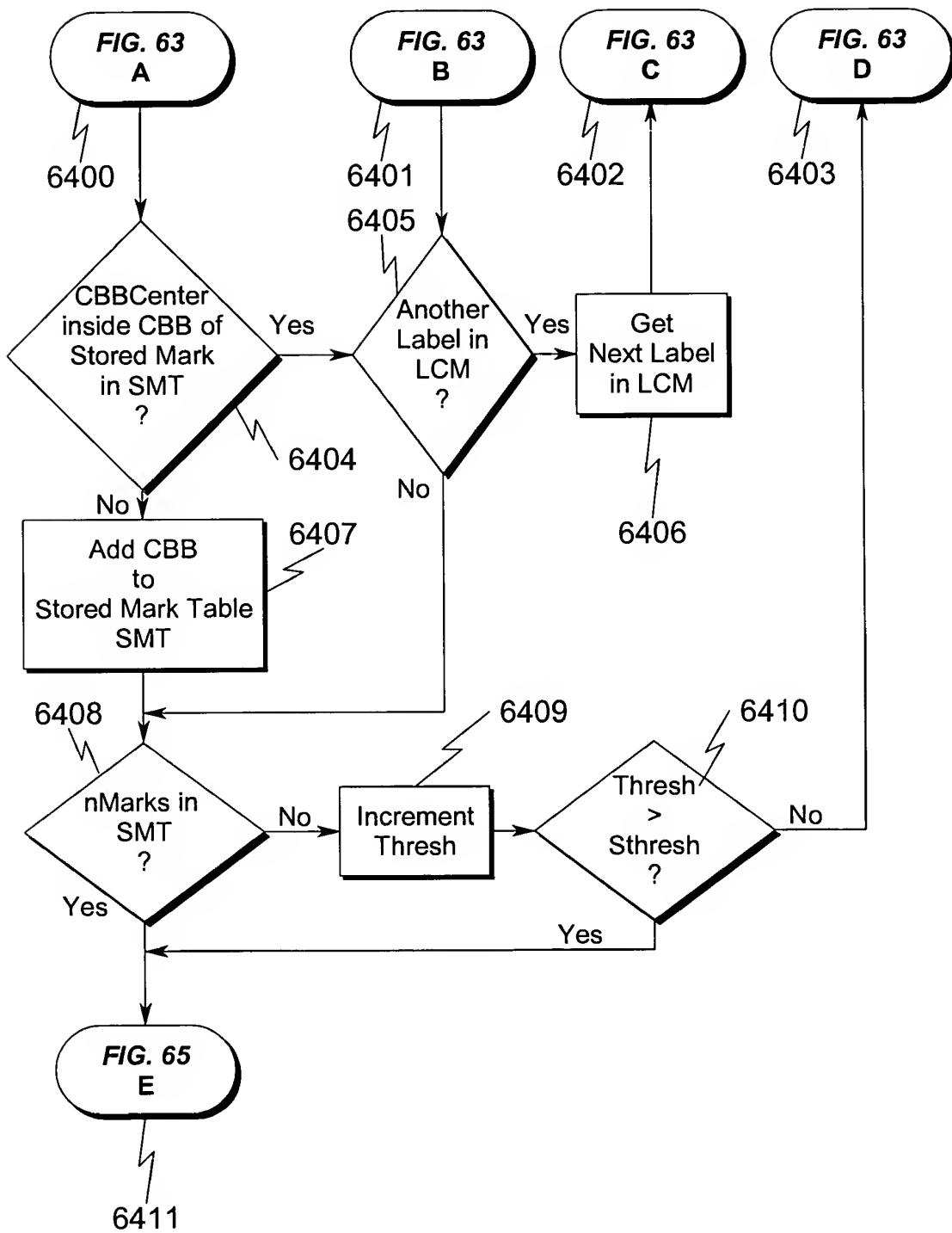
**FIG. 62**



**FIG. 63**

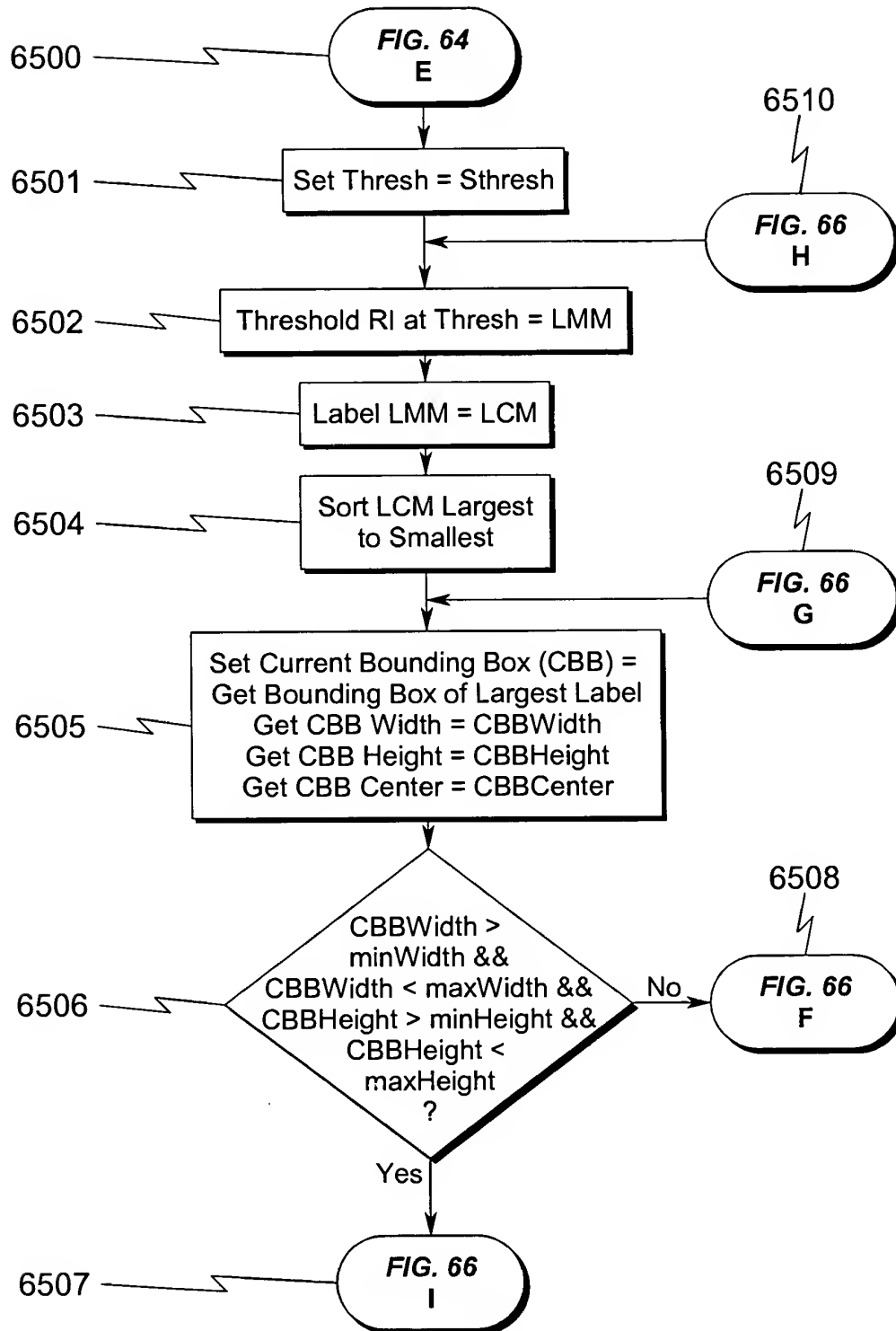


**FIG. 64**

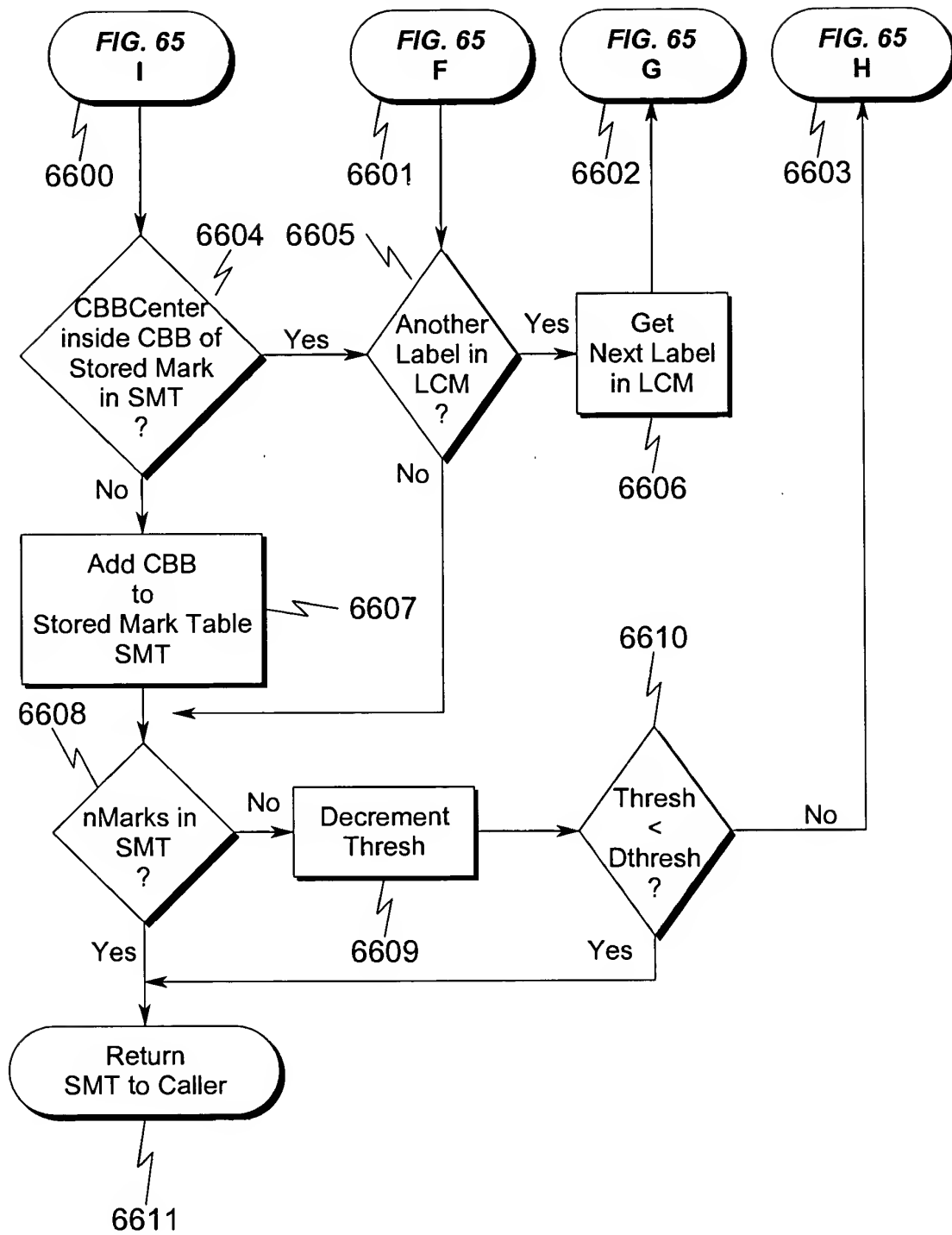




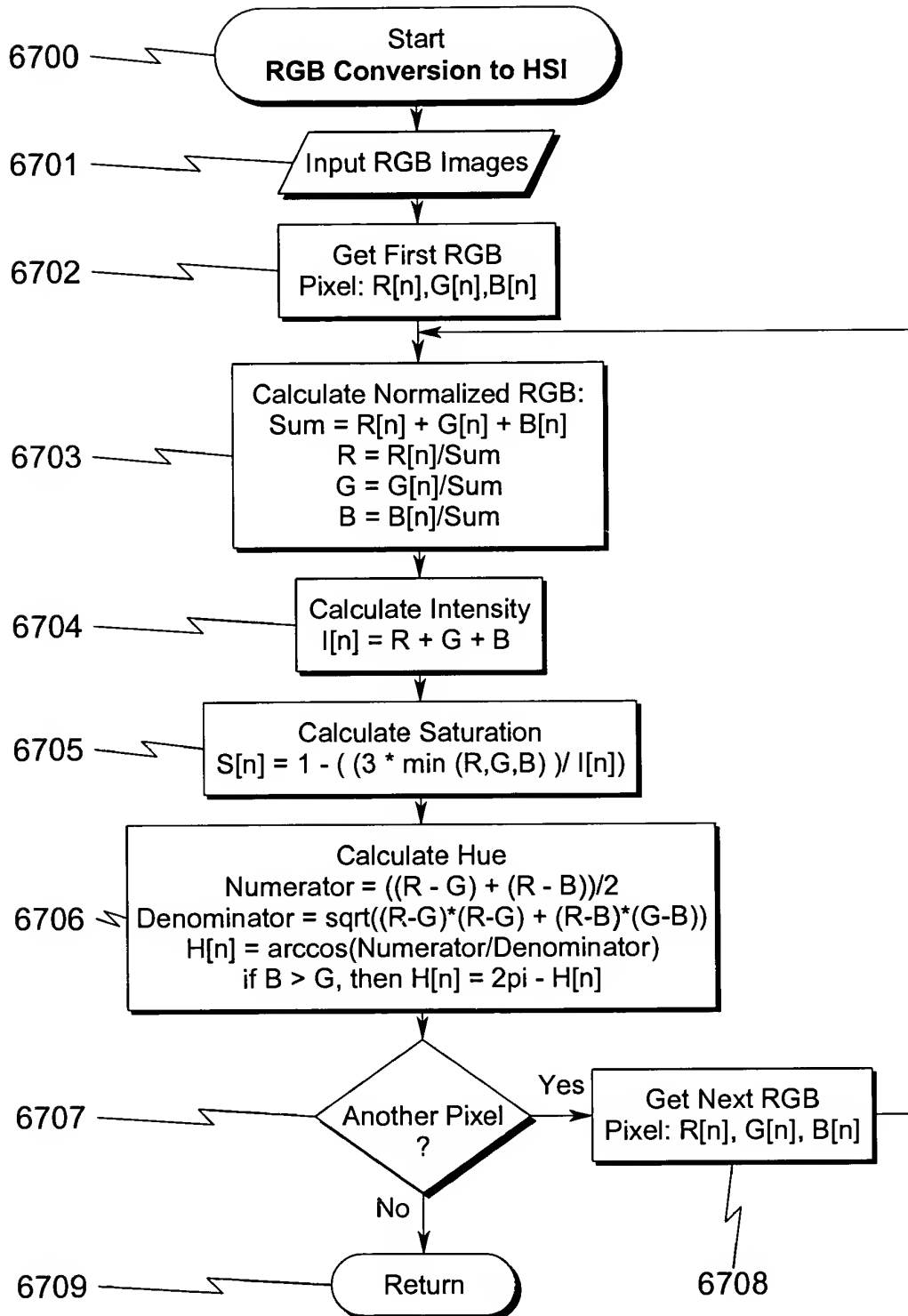
**FIG. 65**



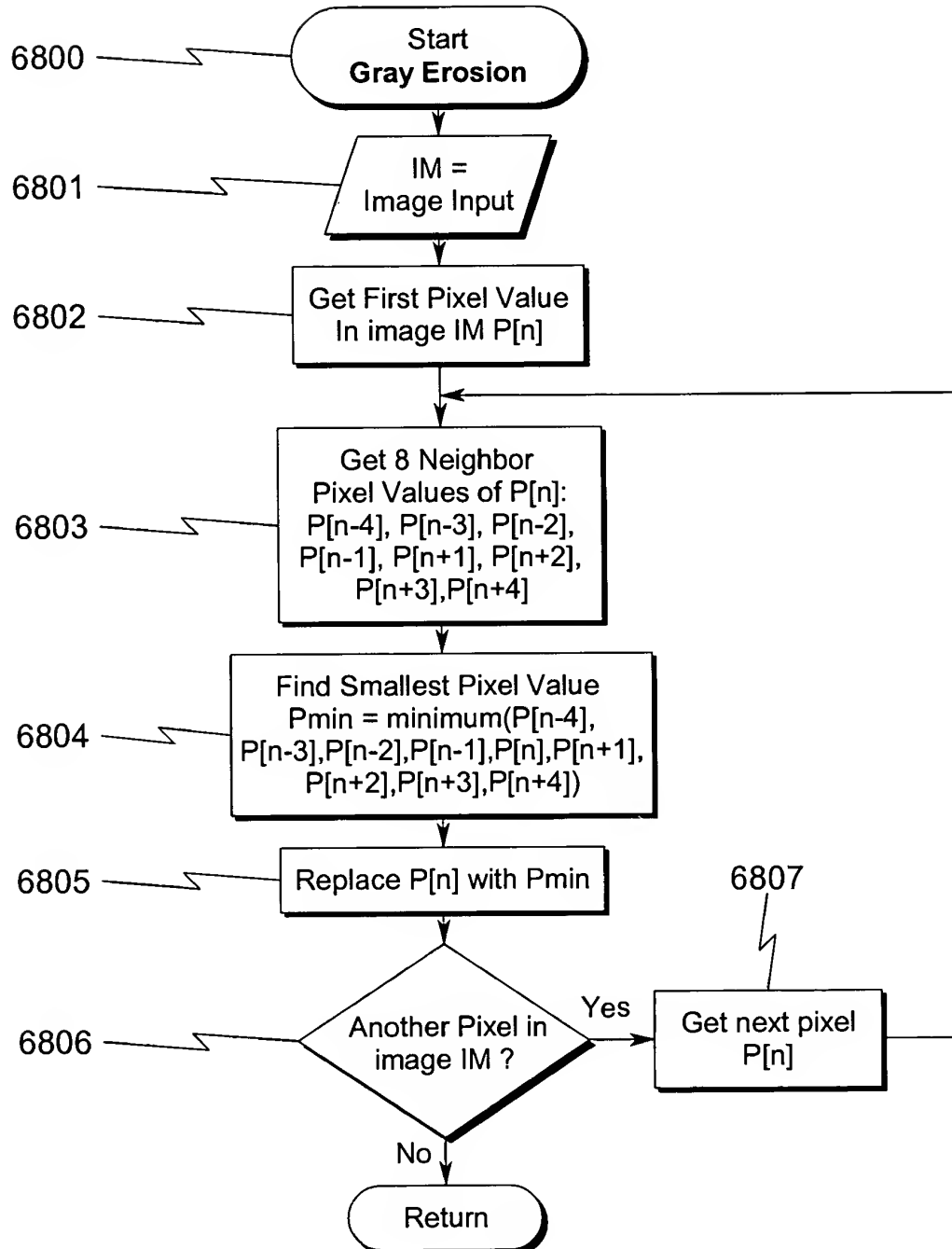
**FIG. 66**



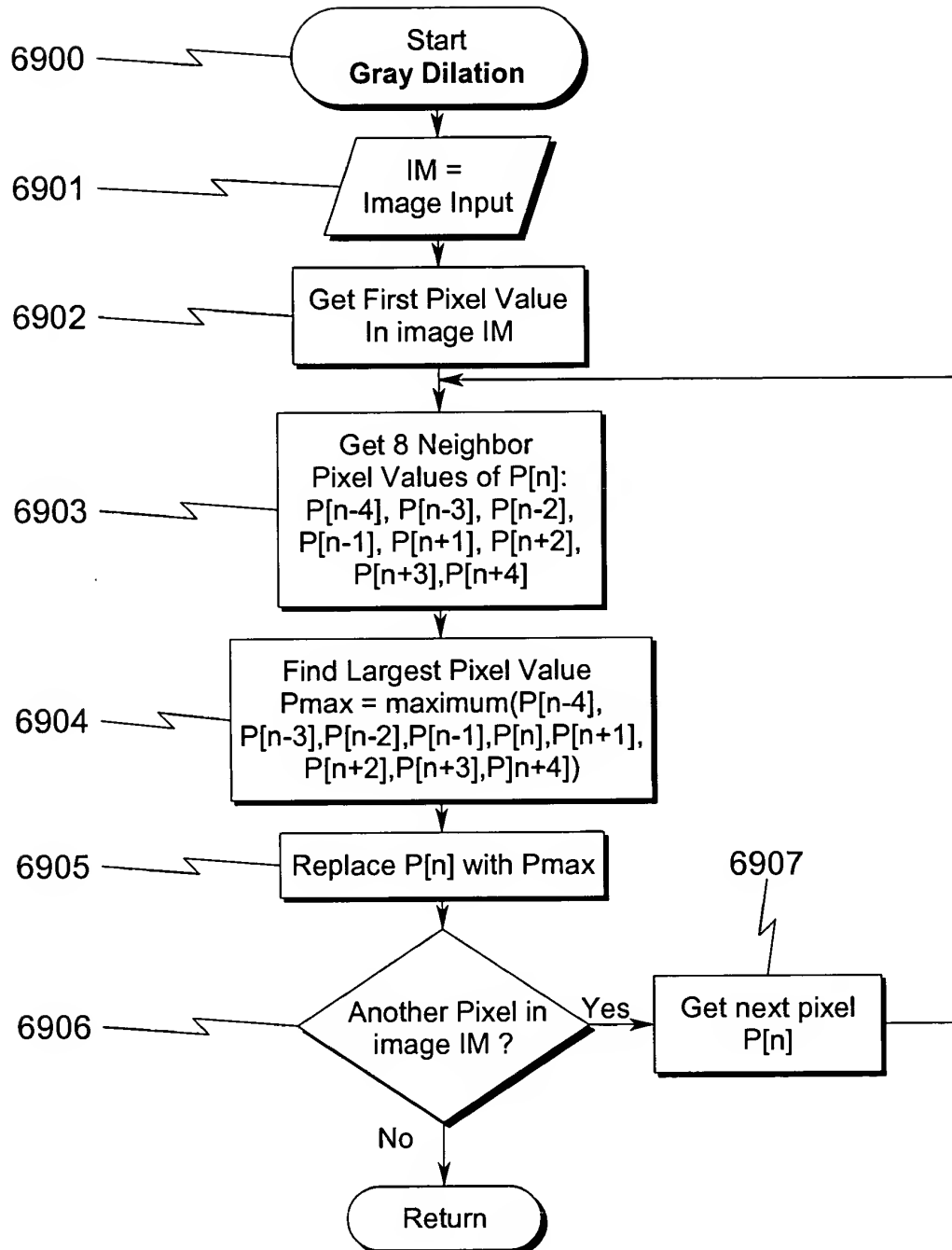
**FIG. 67**



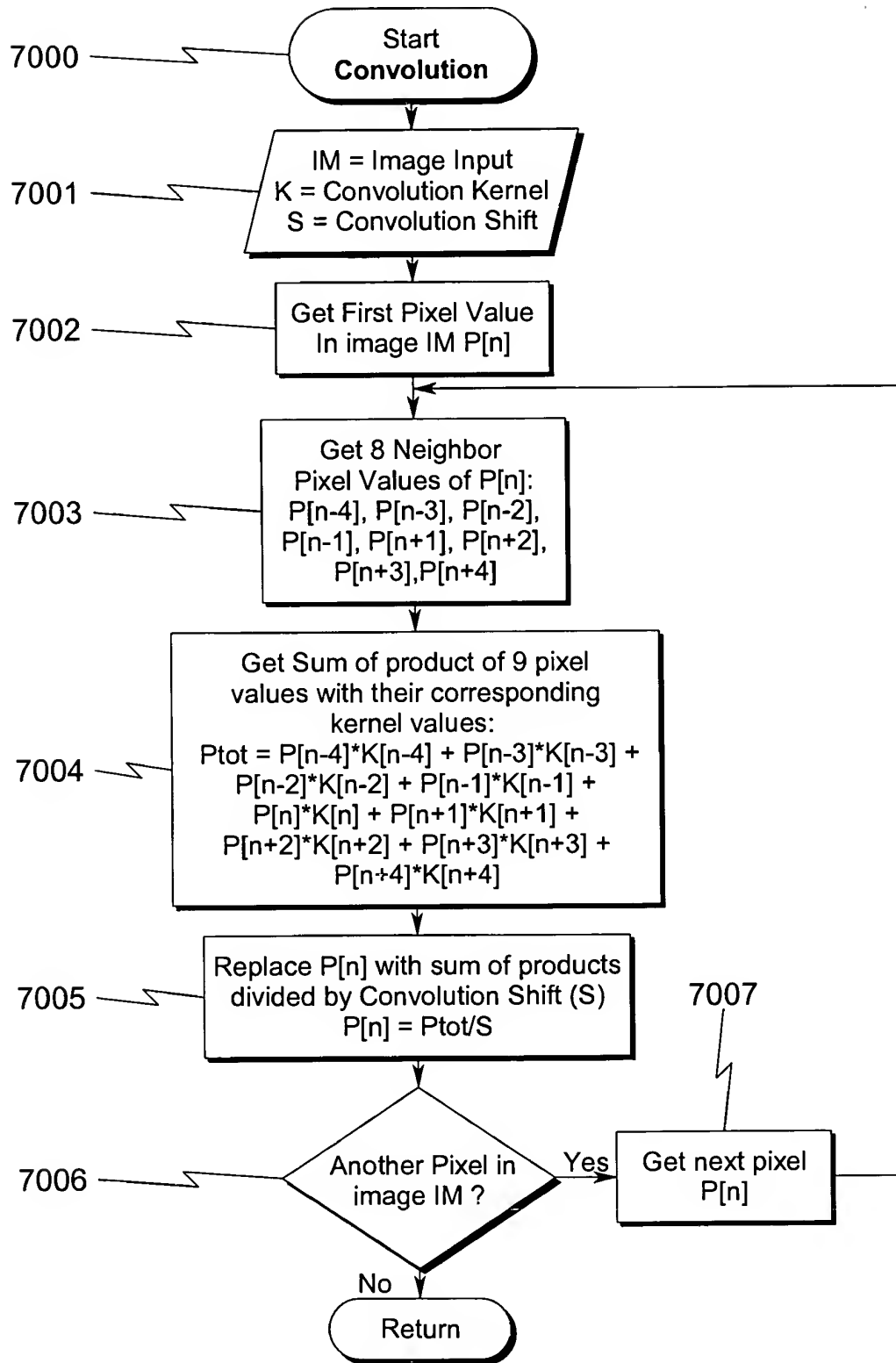
**FIG. 68**



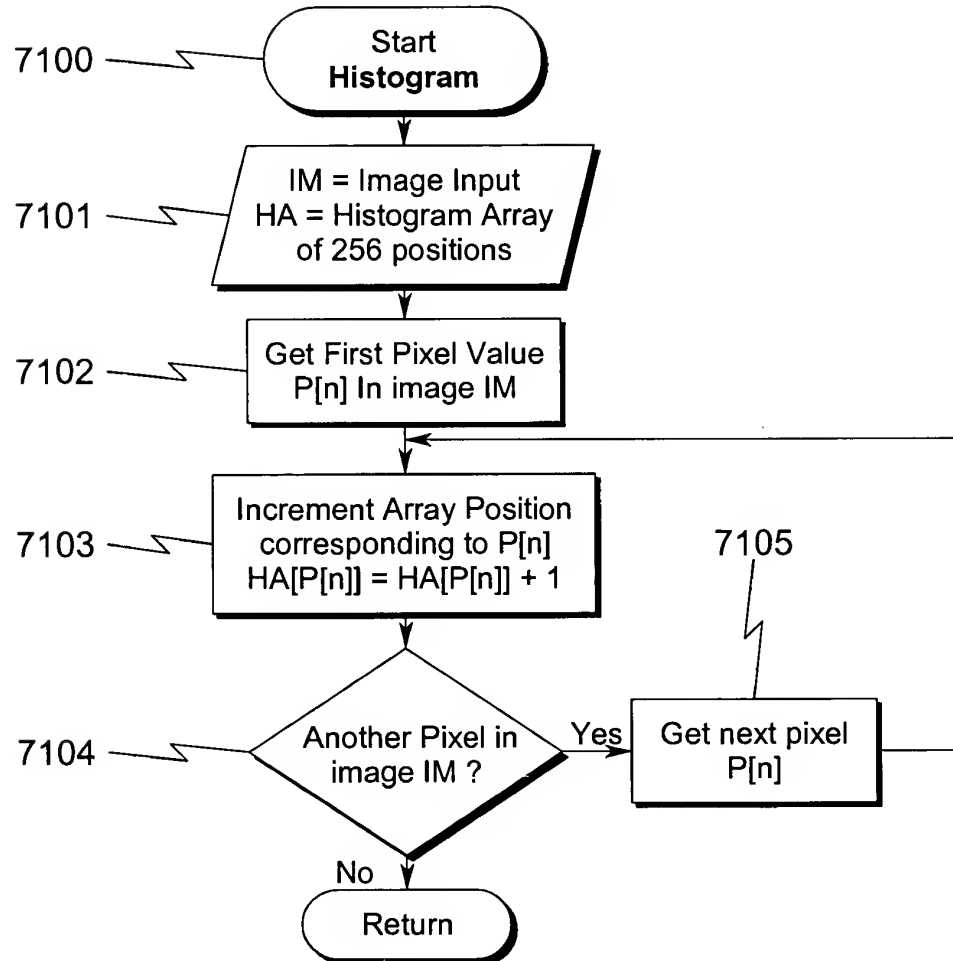
**FIG. 69**



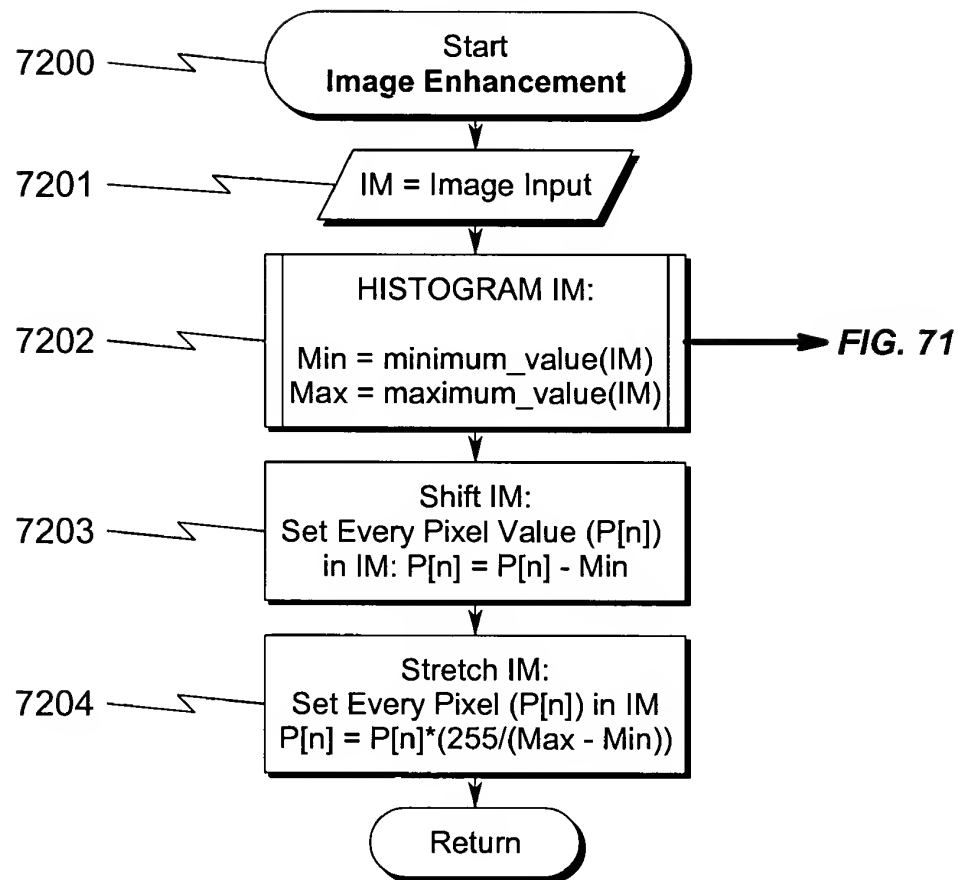
**FIG. 70**



**FIG. 71**

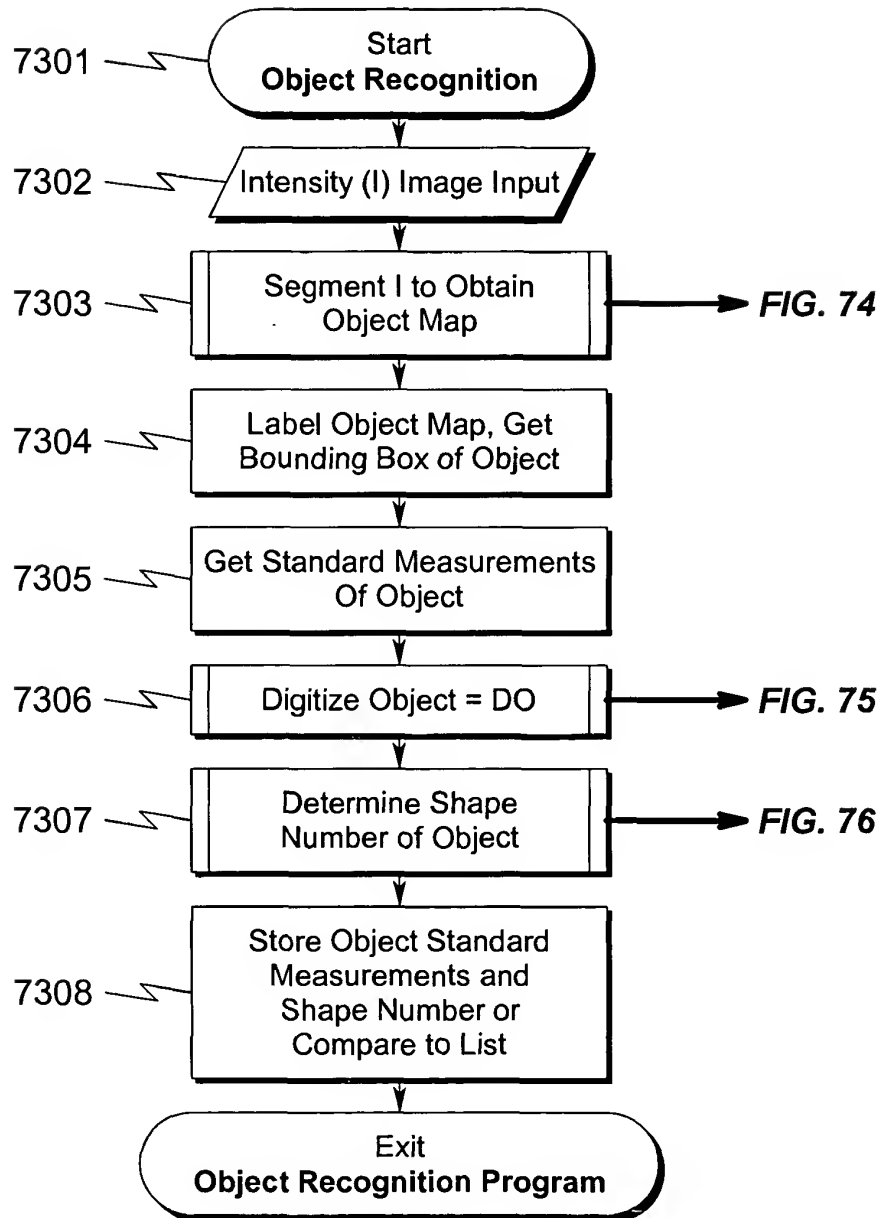


**FIG. 72**

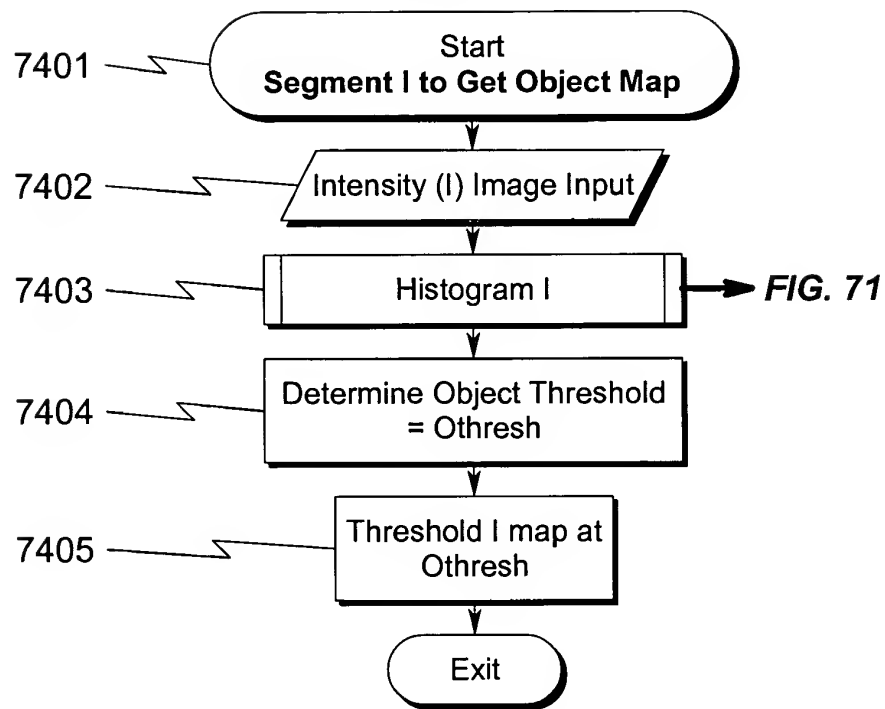




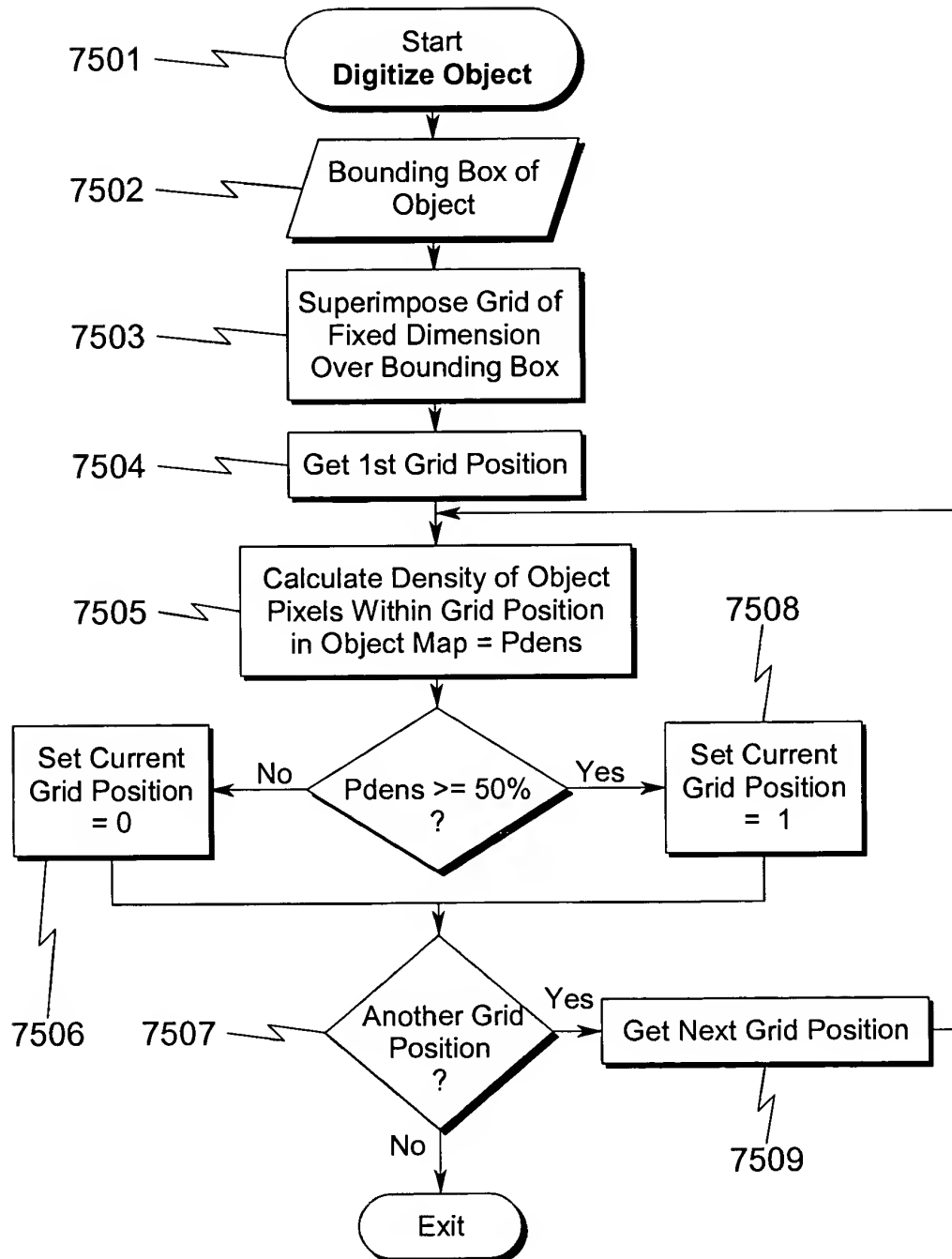
**FIG. 73**



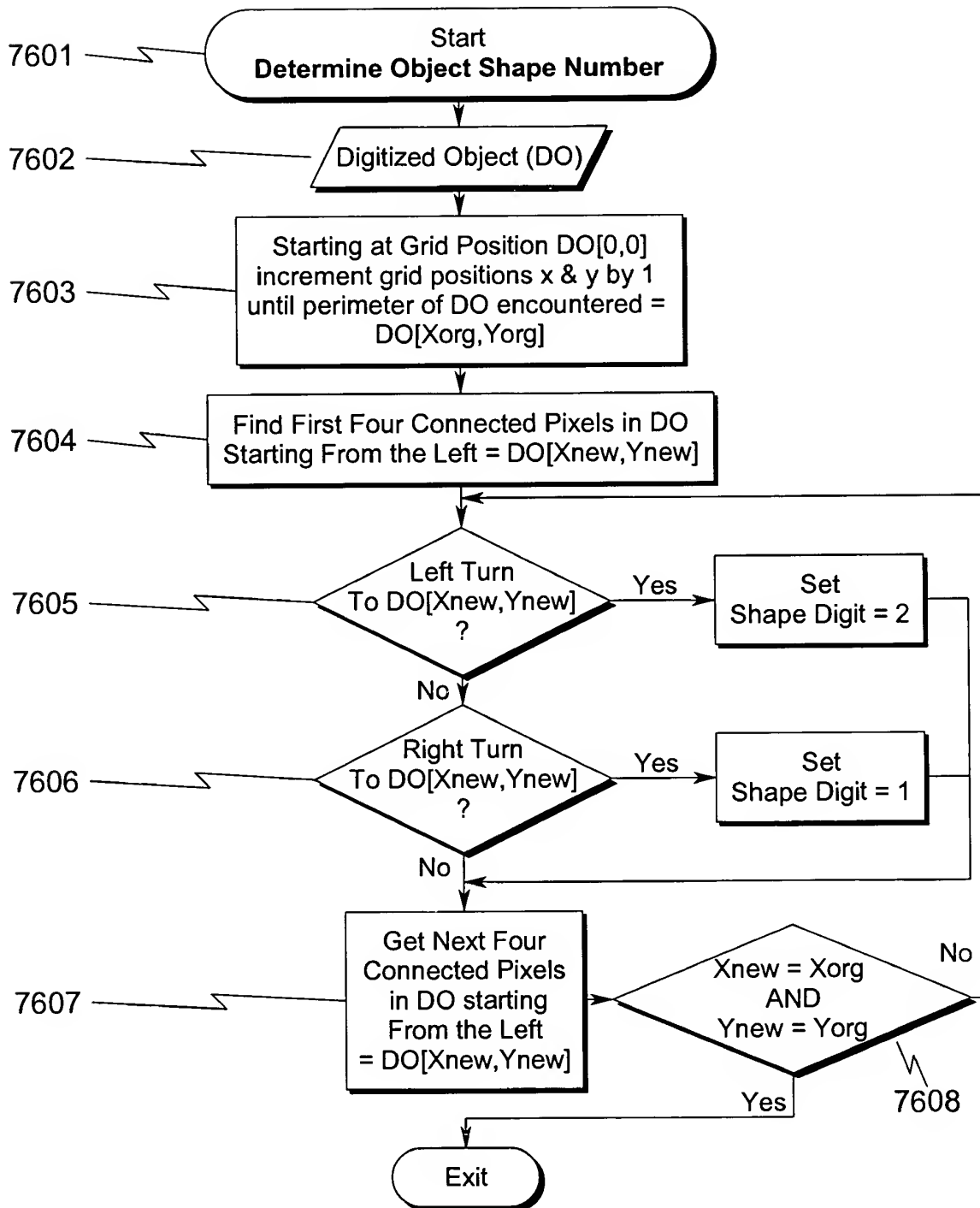
**FIG. 74**



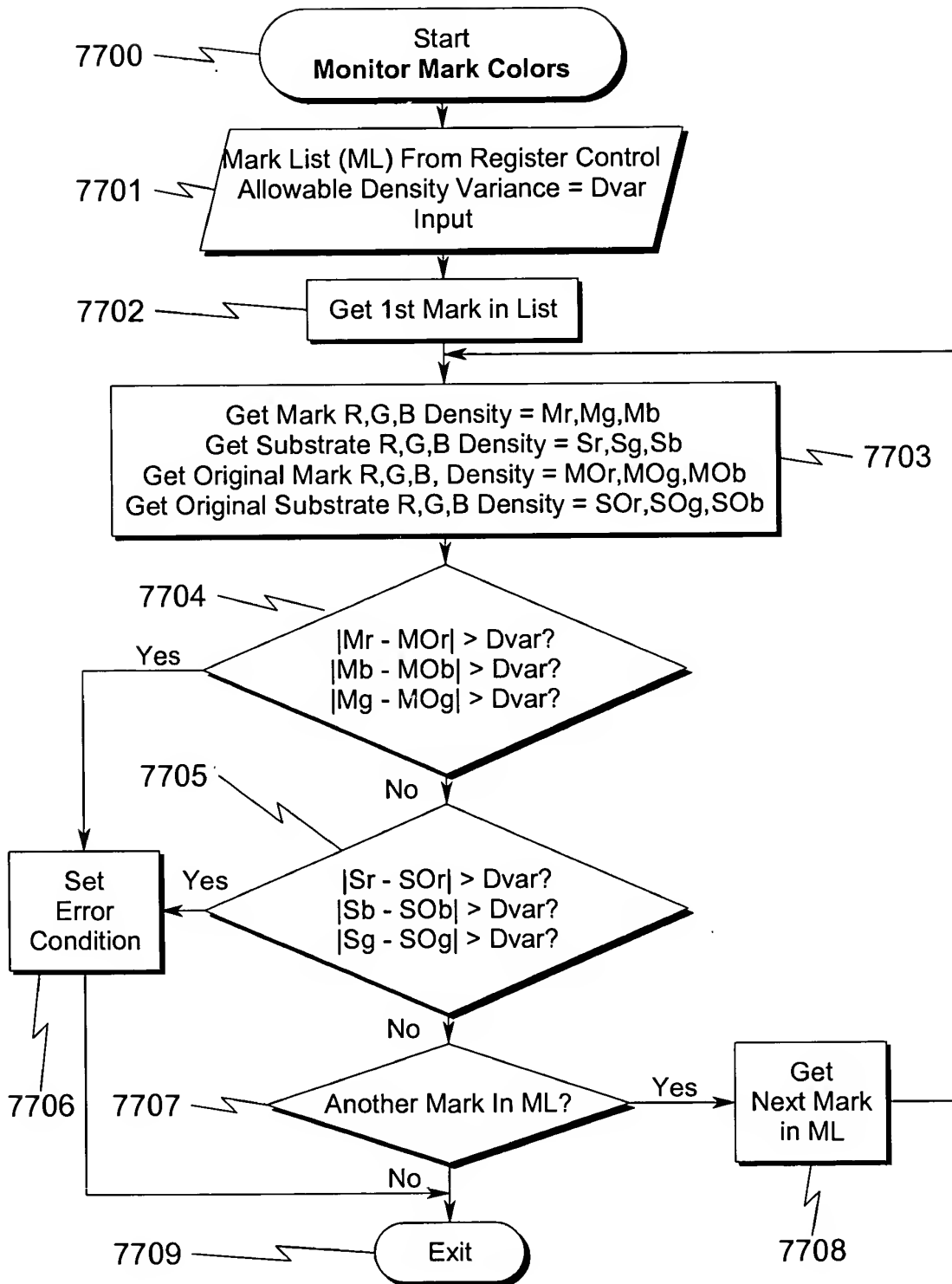
**FIG. 75**



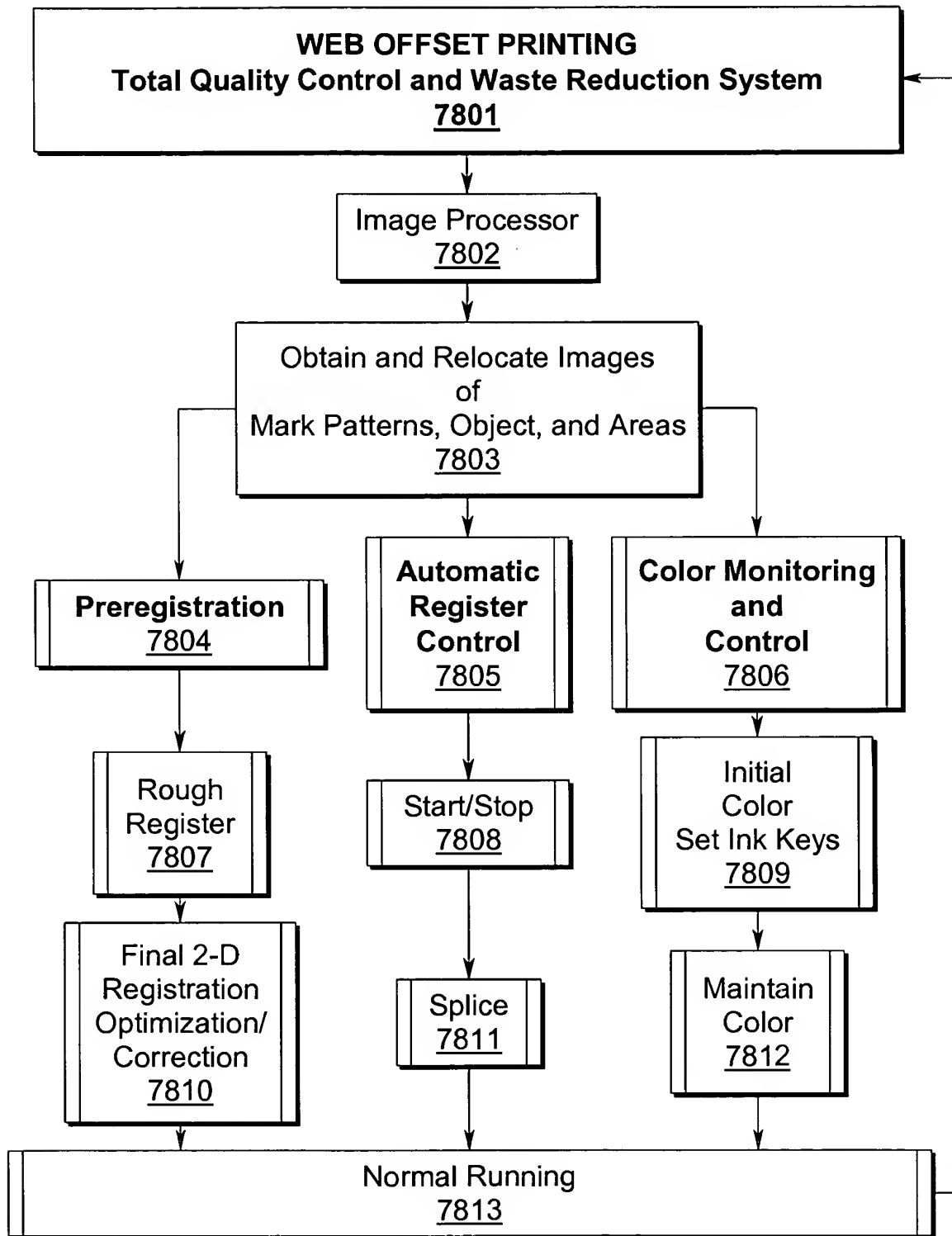
**FIG. 76**



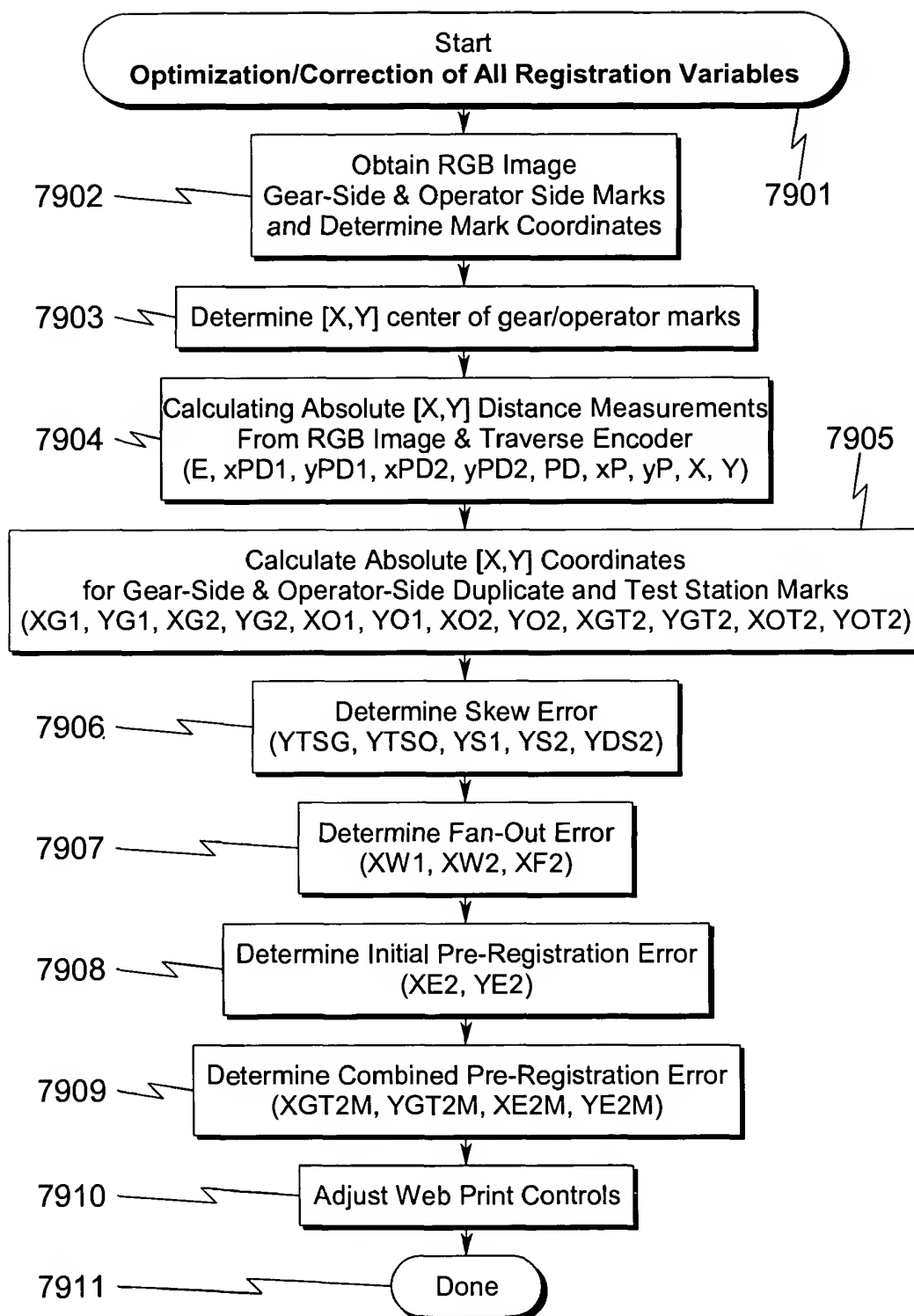
**FIG. 77**



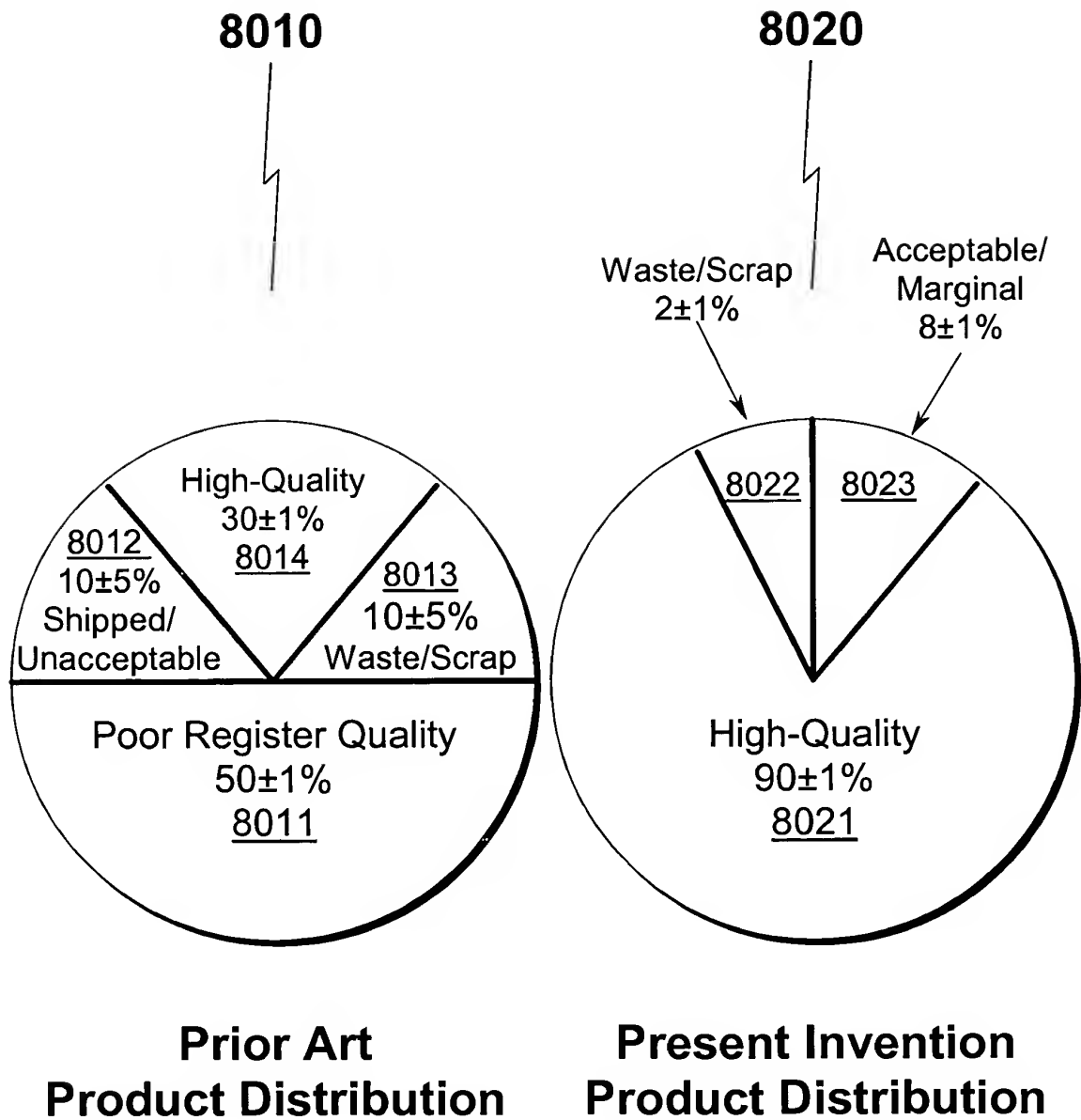
**FIG. 78**



**FIG. 79**



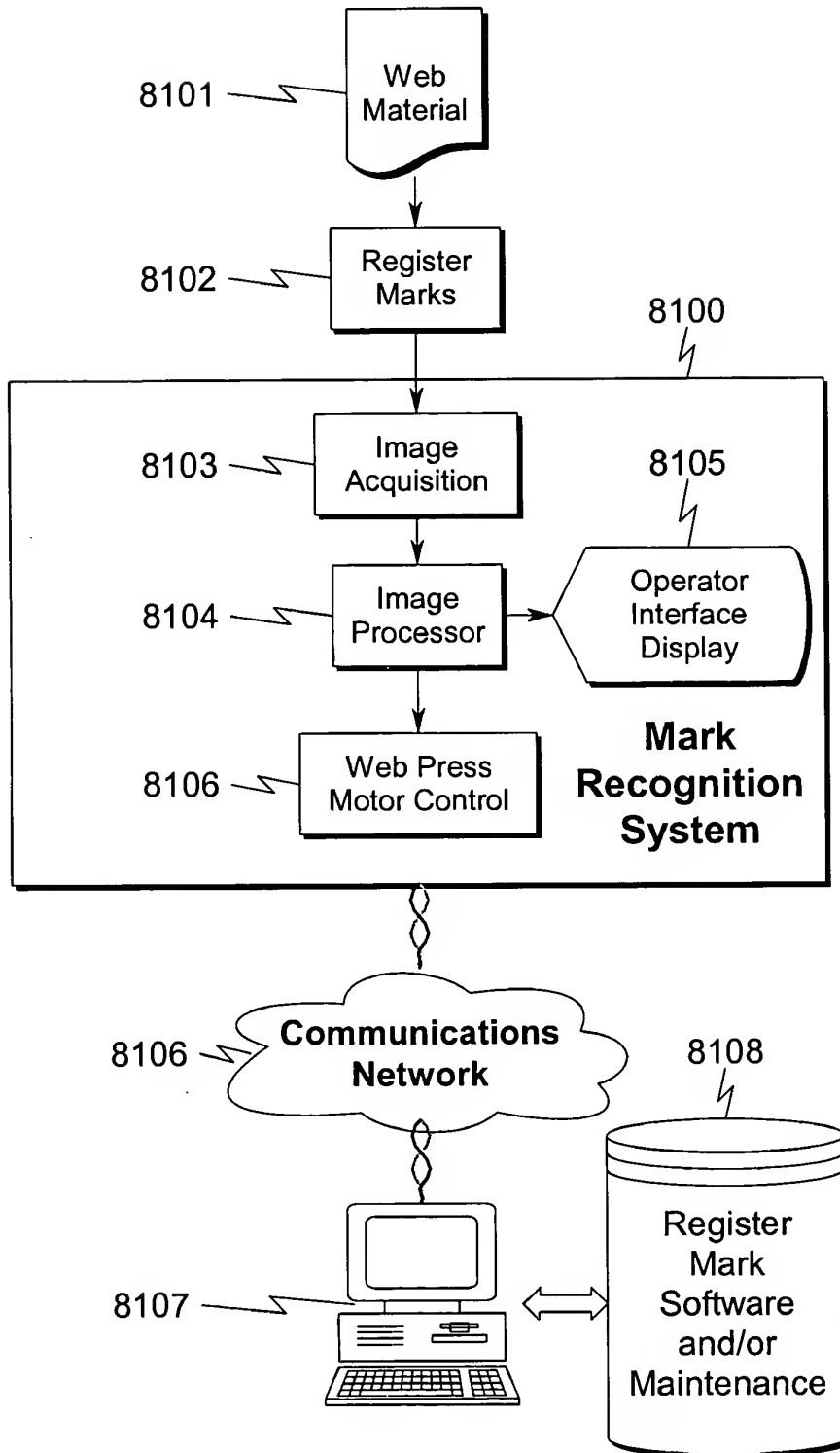
**FIG. 80**



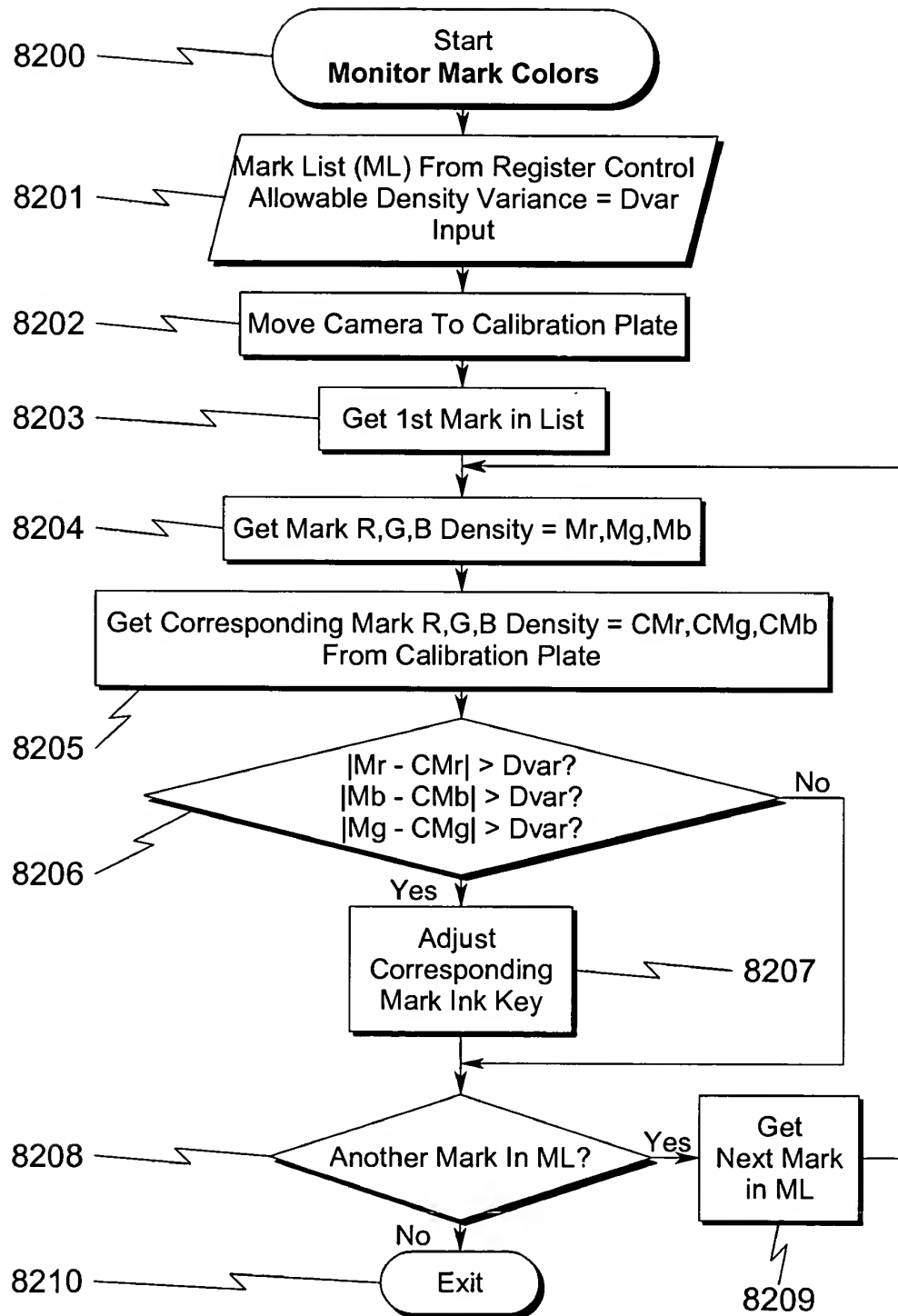
**Exemplary Newspaper Publication  
Waste Recovery Profile Distribution**



**FIG. 81**



**FIG. 82**



**FIG. 83**

